417th BSB (Kitzingen)

ASBESTOS MANAGEMENT PLAN

18 Aug 2003

USAREUR TEMPLATE
ASBESTOS MANAGEMENT PLAN
INFORMATION SHEET

PURPOSE AND DEVELOPMENT

The Asbestos Management Plan (AMP) template has been developed for Headquarters (HQ), U.S. Army Europe (USAREUR). The purpose of the template is to assist individual USAREUR Base Support Battalions (BSBs) and Area Support Groups (ASGs) in developing a compliant AMP for their installation.

TEMPLATE FORMAT AND CONTENT

The template was created in Microsoft® Word™. To preserve its original format and content, the template should be saved and a copy used to develop the installation-specific AMP.

If the individual(s) developing the installation-specific plan uses the template as a guide, the result should be a comprehensive AMP. This Asbestos Management Plan Template (AMPT) was intentionally developed to be both broad and general. Its format and content represent the elements of an appropriate and compliant AMP. While the template recognizes and provides for variations between BSBs/ASGs, each installation can be expected to have its own unique qualities, features, and variations from the norm. When the individual(s) completing a BSB/ASG-specific plan discovers a variance between the situation at the BSB/ASG and the content of the template, good judgment must dictate an appropriate modification to the template content.

When appropriate, consultation with knowledgeable associates, other BSBs/ASGs, or HQ, USAREUR is recommended to resolve other problems that may arise.

This AMPT is designed to enable in-house personnel to develop an installation-specific AMP in an efficient manner. The AMPT, which will be distributed to BSBs/ASGs in Germany, is a cost-effective approach for developing a compliant management plan for each BSB/ASG. This template provides a step-by-step approach for BSB/ASG personnel to develop their own management plan. It includes the necessary standardized text and instructional guidelines for personnel to fill in installation-specific information. It outlines the necessary steps to update the management plan as new information becomes available within the asbestos program. Since it is based on all relevant asbestos regulations, the AMPT serves as a complete management guide for the installation asbestos program.

This plan template provides concise summaries of Department of Defense (DoD), Army, Host Nation, and U.S. asbestos regulations that influence asbestos management at the BSB. These

summaries are organized to allow the reader to efficiently identify regulations that are applicable to a specific asbestos management issue.

This plan template establishes an Asbestos Program Manager (APM) as the central point of contact for asbestos issues at the BSB. The APM has the responsibility and authority to be actively involved in all aspects of asbestos management. Due to the size of most BSBs/ASGs, the APM will require assistance in the form of an asbestos management team (AMT). The AMT is to be made up of management-level community members, and these members will require direct knowledge of asbestos conditions and locations within the BSB/ASG and its facilities in order to protect the community and workers at the BSB/ASG. Additionally, a work control permit system outlined in this plan must be implemented to reduce/eliminate asbestos exposure to building occupants and workers during routine maintenance operations.

This plan template allows for the incorporation of the results of previous asbestos surveys performed at the BSB/ASG, as well as the Urgency of Abatement scores for each asbestos-containing material (ACM) or presumed asbestos-containing material (PACM). A consistent methodology for conducting asbestos building inspections, suspect ACM sampling, and ACM reinspection and periodic surveillance is established to ensure the quality and completeness of data generated from the BSB. Recommended management actions are included.

Asbestos operations and maintenance (O&M) procedures are described in this plan template. Components of the O&M program include work practices and engineering controls, work procedures, use of O&M equipment, respiratory protection, protective clothing, and air monitoring. When BSB facilities develop their O&M plans, instructions and procedures should be included in English and the respective Host Nation language for easy distribution to workers.

The plan template also contains a chapter on worker protection. The chapter outlines the health effects from exposure to asbestos. Specifically, it explains BSB/ASG programs, such as the Medical Surveillance Program and the Respiratory Protection Program. Guidance is provided for actions to initiate when an asbestos hazard is encountered in the workplace and for posting of appropriate warning signs to prevent personnel from tampering unknowingly with ACM.

Training requirements for various levels of asbestos work are included. A brief example of the information received at each course is included to help BSB/ASG staff choose the appropriate training for desired results. All training records and certificates will be maintained in Appendix D of the BSB-specific AMP.

A summary of asbestos abatement activities is included to assist BSB/ASG personnel in organizing their ACM/PACM surveillance activities and Urgency of Abatement reassessments.

Information pertaining to the disposal of asbestos waste, including the procedures, labeling requirements, and contractor qualifications, is included for use by the APM. Adherence to these guidelines is suggested as a means of maintaining compliance and avoiding potential fines. The section indicates the location of the asbestos waste manifests and includes procedures for incorporating the delivery of manifests into the abatement contracting process.

The AMPT includes a chapter on the evaluation of resource requirements. The APM will use this chapter to maintain a listing of current prices for asbestos management supplies and abatement services, and this listing will assist in estimating budgetary items for asbestos management in the following years.

EDITING OF TEMPLATE

The individual developing the installation-specific plan should progress through the template paragraph by paragraph. When information is needed, the individual should take the necessary steps to obtain such information. Once received, the data should be arranged in the template format and inserted into the template. Due to variations between BSBs/ASGs, several options or alternatives may be presented to meet anticipated differences. The plan writer should delete all inappropriate options, leaving only the single option or alternative that best meets actual conditions at the BSB/ASG.

The term “NOTE TO PLAN WRITER” is inserted in the template text where a consideration or judgment by the developer is appropriate. Upon completion of the AMP using the template, all such notes should be deleted. Also throughout this template are blank spaces and optional entries that must be completed, modified, or deleted to appropriately present BSB/ASG-specific information. These entries are indicated in [brackets] and highlighted in yellow throughout the text. When all necessary information, data, and tables have been completed, the template represents the final draft of a comprehensive and compliant installation-specific AMP. Throughout the template where [BSB] or [BSB Name] appears, the plan writer should fill in the name of the ASG if their installation is an ASG and not a BSB (for example 6th ASG, Stuttgart).

Although creating an AMP is not an easy task, it is greatly simplified through the use of the template. The exercise of sound judgment by the individual(s) completing the template and his/her respective superiors is essential to formulating a useful and comprehensive installation-specific AMP. Completion of the template will sometimes require subjective decisions regarding what and how much information is appropriate for inclusion in the AMP. In many cases, the decision to include all available and relevant data as opposed to leaving out parts of the data will result in clarifying and strengthening the AMP.

417th BSB (Kitzingen) ASBESTOS MANAGEMENT PLAN

RECORD OF REVISIONS

Revision No.	Date	Name and Title	Signature	Pages Affected
1				
2				
3				
4				
5				
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APPROVALS

This Asbestos Management Plan (AMP) addresses asbestos management requirements specific to 417th BSB (Kitzingen) operations.

This AMP satisfies the requirement to develop and maintain an AMP contained in Chapter 15, Asbestos and Artificial Mineral Fibers, of the Final Governing Standards (FGS) for Germany. This plan must be updated as information/data contained herein changes.

Prepared By:

_____

Ludger Henning Date

417th BSB DPW Environmental Management Office

Approved By:

_____

Jerome T. Sibayan Date

MAJ, EN
Director of Public Works

Approved By:

_____

THOMAS H. FASS Date

LTC, EN
Commanding

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ACRONYM LIST

ACC	Asbestos Control Committee = Asbestos Management Team (AMT)
ACM	asbestos-containing material(s)
ACGIH	American Conference of Governmental Industrial Hygienists
AHERA	Asbestos Hazard Emergency Response Act
AIHA	American Industrial Hygiene Association
AMP	Asbestos Management Plan
AMT	Asbestos Management Team
ANSI	American National Standards Institute
APM	Asbestos Program Manager
AR	Army Regulation
ARPP	Army Respiratory Protection Program
ASG	Area Support Group
ASHARA	Asbestos School Hazard Abatement Reauthorization Act
BSB	Base Support Battalion
CAA	Clean Air Act
CDC	Child Development Center
CFR	Code of Federal Regulations
CHPPM-EUR	Center for Health Promotion and Preventive Medicine - Europe
CONUS	Continental United States
CPAC	see CPO
CPO	Civilian Personnel Office = Civilian Personnel Assistance Center (CPAC)

DoD	Department of Defense
DoDDS	Department of Defense Dependent School
DoDI	Department of Defense Instruction
DOT	U.S. Department of Transportation
DPW	Directorate of Public Works
DRM	demolition, renovation, or maintenance
DSN	Defense Switched Network
EMO	Environmental Management Office
EQCC	Environmental Quality Control Committee
FGS	Final Governing Standards
HEPA	high efficiency particulate air
HM	hazardous material(s)
HN	Host Nation
HS	hazardous substances
HMSA	Hazardous Material Storage Area
HVAC	Heating, ventilation, and air conditioning
HW	hazardous waste(s)
IH	Industrial Hygienist
IMA-E	Installation Management Agency Europe
MAP	Model Accreditation Program
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIBS	National Institute of Building Sciences

NIOSH	National Institute of Occupational Safety and Health
NVLAP	National Voluntary Laboratory Accreditation Program
OCONUS	Outside the Continental United States
OEBGD	Overseas Environmental Baseline Guidance Document
O&M	Operations and Maintenance
OHN	Occupational Health Nurse
OSHA	Occupational Safety and Health Administration
PACM	presumed asbestos-containing material
PCE	personnel clothing and equipment = personnel protective equipment (PPE)
PAO	Public Affairs Office
PEL	permissible exposure limit
PCM	phase contrast microscopy
PLM	polarized light microscopy
POC	point of contact
PPE	personal protective equipment
PVC	poly-vinyl chloride
PWTB	Public Works Technical Bulletin
QC	Quality Control
RPP	Respiratory Protection Program
SA	Supplementary Agreement
SCBA	self-contained breathing apparatus
SEM	scanning electron microscopy

SJA	Staff Judge Advocate
SOFA	Status of Forces Agreement
SOP(s)	Standard Operating Procedure(s)
TB MED	Medical Technical Bulletin
TEM	transmission electron microscopy
TSI	thermal system insulation
UEC	Unit Environmental Coordinator
UR	U.S. Army Europe Regulation
USAREUR	U.S. Army Europe
USEPA	U.S. Environmental Protection Agency
VFT	vinyl floor tile

DEFINITIONS

The following definitions are provided in addition to those presented in Chapter 15, Asbestos and Artificial Mineral Fibers, of the Final Governing Standards (FGS) for Germany.

Abatement is an action or set of procedures intended to control the release of fibers from ACM, including removal, encapsulation, enclosure, repair, or encasement.

Amended water is that water to which a surfactant or wetting agent has been added to increase the ability of the liquid to penetrate ACM.

Authorized person is any person authorized by the employer and required by work duties to be present in regulated areas.

Building/facility owner is the legal entity, including a lessee that exercises control over management and recordkeeping functions relating to a building and/or facility in which activities covered by this standard take place.

Clean room is an uncontaminated room having facilities for the storage of employees' street clothing and uncontaminated materials and equipment.

Competent person is an individual who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure; one who has the authority to take prompt corrective measures to eliminate them.

Containment is the isolation of the work area from the rest of the building to prevent the escape of asbestos fibers during abatement activities.

Critical barrier is one or more layers of plastic fitted over all openings into a work area or any other similarly placed seal or physical barrier sufficient to prevent airborne asbestos in a work area from migrating to an adjacent area.

Decontamination area is an enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos.

Disturbance is the result of activities that disrupt the matrix of ACM or PACM, crumble or pulverize ACM or PACM, or generate visible debris from ACM or PACM; includes activities that disrupt the matrix of ACM or PACM, render ACM or PACM friable, or generate visible debris (e.g., cutting away small amounts of ACM and PACM in order to access a building component).

Employee exposure is that exposure to airborne asbestos which would occur if the employee were not using respiratory protective equipment.

Encapsulation is the application of a material that surrounds or embeds asbestos fibers in an adhesive matrix.

Enclosure is the act of constructing an air-tight, impermeable, permanent barrier around ACM to control the release of asbestos fibers into the air; also the temporary structure, built to enclose the work area during a large-scale ACM removal project, where negative pressure is maintained.

Equipment room is a contaminated room located within the decontamination area that is supplied with impermeable bags or containers for the disposal of contaminated protective clothing and equipment (also known as the changing room).

Exposure assessment is an evaluation performed by a competent person in order to predict whether exposure levels during a planned asbestos activity will likely exceed the PEL or other regulatory standard, and, if so, whether additional monitoring, protective equipment, or precautions are required.

Facility is a DoD-controlled area or structure on an installation where a unit or other organization's activities take place.

Friable is a descriptive term indicating that a material is capable of being crumbled, pulverized, or reduced to powder by hand pressure.

Glove bag is an impervious plastic/polyethylene/polyvinyl chloride bag-like enclosure, no larger than 60 x 60 inches, having glove-like appendages through which material and tools may be handled, that is designed to be affixed around an asbestos-containing material.

High efficiency particulate air (HEPA) filter is a filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

Homogeneous area is an area of surfacing material or thermal system insulation that is uniform in age, color and texture.

Industrial hygienist is a professional qualified by education, training, and experience to anticipate, recognize, evaluate, and develop controls for occupational health hazards.

Intact is a descriptive term for ACM that has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix.

Installation is a DoD-controlled location or site within the BSB on a single parcel of real estate having defined boundaries.

Modification is a changed or altered procedure, material, or component of a control system, which replaces a procedure, material, or component of a required system.

Operations and maintenance (O&M) is a program of work practices implemented to maintain friable ACM in good condition, to ensure that fibers previously released are cleaned up, and to prevent further release of asbestos fibers by minimizing and controlling ACM disturbance and damage.

Permissible exposure limit (PEL) is an airborne concentration of asbestos established by OSHA such that the employer should ensure that no employee is exposed to levels exceeding the PEL without respiratory protection. The OSHA PEL is 0.1 fibers per cubic centimeter (f/cc) of air as an 8-hour time-weighted average (TWA). The German equivalent of the OSHA PEL, as stated in the TRGS 519, is a workplace exposure limit of 15,000 fibers per cubic meter (f/m^3) in the working area.

Presumed asbestos-containing material (PACM) = assumed ACM, is thermal system insulation and surfacing material found in buildings constructed no later than 1980.

Reassessment is the act of evaluating, by means of visual inspection and/or by touch, the condition of ACM; reassessment is used to determine the urgency of abatement as described in Chapter 15 of the FGS for Germany.

Regulated area is a physical location established by the employer to demarcate the areas where asbestos work is conducted; includes any adjoining area where debris and waste from such asbestos work accumulated and any work area where airborne concentrations of asbestos exceed or may possibly exceed the PEL.

Removal describes all operations where ACM and/or PACM is taken out or stripped from structures or substrates; includes demolition operations.

Renovation is the modification of any existing structure or portion thereof.

Repair is the overhauling, rebuilding, reconstructing, or reconditioning of structures or substrates, including encapsulation or other alteration of ACM or PACM attached to structures or substrates.

Response action is an action implemented to protect human health and the environment from friable ACM.

Surfacing material is material that is sprayed, troweled-on, or otherwise applied to surfaces (e.g., acoustical plaster on ceilings, fireproofing on structural members).

Thermal system insulation (TSI) is material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain or water condensation.

Time-weighted average (TWA) is the average concentration of a contaminant in air during a particular sampling or work period.

1.0 INTRODUCTION AND BACKGROUND

Asbestos by definition is a group of naturally occurring minerals that consist of hydrated silicates, crystalline in structure, that occur as parallel bundles of minute fibers. When asbestos is physically disturbed, the bundles separate into individual fibers or fibrils. Inhalation or ingestion of these minute fibers can cause serious health problems or death. For this reason, asbestos laws and regulations have been developed to control asbestos hazards and to protect workers from asbestos exposure.

Asbestos minerals are divided into two major groups: serpentine and amphibole. The serpentine group is characterized by a lattice structure and includes chrysotile, also known as white asbestos. Chrysotile, a hydrated magnesium silicate, is characterized by its fine, silky fibers, is flexible, and has a high tensile strength. Approximately 90 percent of all asbestos used in commercial and industrial applications from 1900 to the present consists of chrysotile asbestos fibers. Chrysotile was commonly used in a broad range of applications and products, including vinyl floor tiles, resilient floor coverings, gaskets, cementitious products, paper products, adhesive compounds, textiles, and roofing materials.

The amphibole group is characterized by chained silicates and includes amosite, crocidolite, tremolite, actinolite, and anthophyllite asbestos. Amosite, also known as grunerite or brown asbestos, is a hydrated iron magnesium silicate characterized by brittle fibers and has high resistance to heat. Amosite was used primarily in high-temperature applications such as structural fireproofing, electrical cable insulation, and thermal system insulation. Crocidolite, also known as blue asbestos, is a hydrated sodium magnesium iron silicate characterized by brittle and very strong fibers. Crocidolite was infrequently used in North America but commonly used in Europe, especially in textiles (e.g., fire blankets, felts, welding curtains) and filtration products.

1.1 PURPOSE AND OBJECTIVE

This plan is designed to define the scope of the asbestos management issues at the 417th BSB (Kitzingen) to identify pre-abatement measures that can be implemented to mitigate potential exposures; and to develop a detailed asbestos abatement plan if necessary.

The objective of the Army Asbestos Management Program is to prevent human exposure to asbestos hazards at Army facilities through proactive policies that comply with all applicable laws and regulations. The Program applies to friable and non-friable ACM.

This Asbestos Management Plan (AMP) has been prepared for the 417th BSB (Kitzingen) in accordance with applicable U.S. Army Europe (USAREUR), U.S. Army, and U.S. Department of

Defense (DoD) regulations and guidelines, as well as Final Governing Standards (FGS) for Germany and host nation (HN) regulations pertaining to asbestos management. The procedures contained in this AMP are based on the regulatory requirements listed below.

- US Code of Federal Regulations (CFR), Title 29 (29 CFR) and Title 40 (40 CFR)
- Army Regulations
  - AR 200-1 – Environmental Protection and Enhancement
  - AR 385-10 – The Army Safety Program.
  - AR 420-70 – Facilities Engineering, Buildings and Structures
  - AR 11-34 - Army Respiratory Protection Program
- USAREUR Regulations
  - USAREUR Regulation 200-1, Environmental Quality, USAREUR Environmental Quality Program, January 1993
- NATO Status of Forces Agreement (SOFA) and Supplementary Agreement, March 1998
- FGS for Germany - Environmental Final Governing Standards – Germany, U.S. Department of Defense, Janurary 2003
- Asbestos-Guidelines (Richtlinie für die Bewertung und Sanierung schwach gebundener Asbestprodukte in Gebäuden – Asbest-Richtlinie, January 1996)
- TRGS-(Technical Rules for Hazardous Substances) 519 Asbestos – Demolition, Reconstruction or Maintenance Work, September 2001
- TRGS 521 Fiber Dusts, October 1996, last changed March 1999
- TRGS 905 Catalog of Carcinogenic, Mutagenic, or Teratogenic Substances, June 1997, last changed December 1999
- Hazardous Substances Ordinance (Gefahrstoffverordnung vom 15. November 1999)
- Rules and guidelines of the German Employer's Liability Insurance Association
  - BGV A4 (formerly VBG 100) – Medical Surveillance
  - BGI 664 – Asbestos Work Procedures With Minor Fiber Exposure
  - BGR 189 (formerly ZH 1/700) - Protective Clothing
  - BGR 190 (formerly ZH 1/701) - Respirators

The laws and regulations governing asbestos management are continually changing and evolving; therefore, the procedures contained in this AMP must be reviewed and updated periodically to ensure compliance with emerging requirements.

This AMP is designed to be a working document assisting the asbestos program manager (APM) with administering the 417th BSB (Kitzingen) asbestos program. Guidance for the development of this plan is taken from the FGS for Germany. If properly implemented, the AMP will provide a systematic approach to ensure a safe and healthy work environment for all employees and

building occupants. It will also allow the BSB to comply with Host Nation and DoD legal requirements.

1.2 APPLICABILITY

This AMP applies to all installations, facilities, units, activities, and organizations within the 417th BSB DPW areas of responsibility (AOR). The provisions of this plan apply to and should be followed by all personnel responsible for conducting or overseeing activities involving asbestos. This plan and its provisions apply to asbestos-related activities conducted under any contract issued by the 417th BSB (Kitzingen). This plan and its provisions apply also to the activities of other organizations or units from outside the BSB that use training areas on or otherwise operate within the BSB's area of responsibility.

1.3 PLAN DISTRIBUTION AND MAINTENANCE

A copy of this AMP must be distributed to each AMT member. Each person or group of persons responsible for asbestos management, including the staff of the Environmental Management Office (EMO), the Safety Office, and the installation commander, should maintain a copy of the plan. This plan should also be made available to Host Nation officials and contractors if they have a legitimate request.

The 417th BSB (Kitzingen) Commander is responsible for ensuring that the plan is effectively implemented. A space is provided on the cover of this plan for the Commander's signature. If the BSB Commander designates someone other than himself/herself to be responsible for this plan, he/she must be competent and qualified.

1.4 PLAN REVIEW AND UPDATING REQUIREMENTS

This section presents the requirements and procedures to be used by the 417th BSB (Kitzingen) for reviewing and updating this document. This plan will be reviewed by the AMT as needed and updated at least every 5 years. Areas that must be updated over time include the identity of key personnel, facility and equipment design, materials handled, handling methods, and changes in regulations or standards. Review of and updates to the AMP (not including appendices) will be conducted at the same level of authority (i.e., requiring the Commander's signature) as the original.

Review means to systematically check this AMP for accuracy, effectiveness, relevance, and coverage. The review should be structured and documented, applying common sense and specific ongoing knowledge of installations and operations. The review should identify and revise

significant operational or regulatory changes, as well as cosmetic, editorial, or supplementary information. Revisions to this plan may require training or implementation of other measures before the changes are authorized and distributed. These measures should be completed and thoroughly addressed before this plan is updated. If review of this plan does not identify revisions that need to be made, the person responsible for the review should document the lack of required update to the 417th BSB (Kitzingen) Commander. This review documentation must be retained with other records related to this plan.

The following planned or existing changes should be identified during the review and may result in revision of this AMP:

- Significant operational changes.
- Change in facility design, construction, operations, or maintenance in areas where ACM has been identified.
- Significant changes in the nature, size, or scope of off-installation activities that are covered by the plan for the installation where the organization is based.
- A change in key personnel in the asbestos management program.
- Significant improvements or deficiencies identified by surveillance and reinspection.
- Non-critical personnel changes, editorial revisions, and other changes not specifically relevant to asbestos. These changes can be included with the next regular revision.

This plan and its updates take effect on the date signed by the 417th BSB (Kitzingen) Commander, which should be after AMT review. Properly authorized updates will be immediately distributed with clear handling instructions to each person who maintains a copy of this plan (hereafter referred to as a "plan holder"). Plan holders are responsible for ensuring that updates and revisions are immediately included in their copies. In addition, each plan holder is responsible for implementing any required changes to operations and training in a timely manner.

1.5 AUTHORITY AND KEY REGULATORY REQUIREMENTS

The procedures contained in this AMP are based on numerous U.S., DoD, U.S. Army, USAREUR, and German laws, regulations, policies, and other guidance. The key regulatory requirements are noted below. These documents should be kept current at the BSB and be readily available to personnel who are responsible for the asbestos management program. A more comprehensive list of references is presented in Section 12.

- German FGS.
  - Chapter 5, Hazardous Material
  - Chapter 6, Hazardous Waste

  - Chapter 15, Asbestos and Artificial Mineral Fibers
- UR 200-1, USAREUR Environmental Quality Program.
  - Chapter 5, Hazardous Materials Management Program
  - Chapter 6, Solid and Hazardous Waste Management Program
  - Chapter 10, Asbestos Management Program
- Army Regulation (AR) 200-1, Environmental Protection and Enhancement.
  - Chapter 4, Hazardous Materials Management
  - Chapter 5, Hazardous and Solid Waste Management
  - Chapter 8, Asbestos Management
  - Chapter 14, Army Environmental Program in Foreign Countries
- 29 CFR 1910, Occupational Safety and Health Standards
- 29 CFR 1926.1101, Asbestos
- 40 CFR 763, Asbestos Model Accreditation Plan
- Status of Forces Agreement (SOFA) and Supplementary Agreement (SA), March 1998.

The laws and regulations governing the management of asbestos are continually changing and evolving. Therefore, the procedures contained in this AMP must be updated periodically (see Section 1.4)

2.0 GENERAL BSB INFORMATION

2.1 417TH BSB (KITZINGEN) LOCATION AND MISSION

The 417th BSB is split into three Area Support Teams (ASTs), Würzburg, Kitzingen and Giebelstadt situated in Lower Franconia, Northern Bavaria**,** Germany

The overall mission of the installation is to allow units to accomplish training objectives in tactically realistic environments in accordance with U.S. Army and NATO doctrine, under the published rules of engagement.

2.2 417TH BSB PHYSICAL CHARACTERISTICS

The 417th BSB occupies 14 distinct locations with a total size of 5,151.37 acres (2,085.73 hectares). These lands comprise 2,035.99 acres (823.95 hectares) of cantonment area and 3,115.38 acres (1,260.78 hectares) of training area.

SIZE OF THE CANTONMENT AREAS

Locations	Acres	Hectares
AST Würzburg		
Breitsohl Radio Site	2.42	0.98
Faulenberg Kaserne	32.89	13.31
U.S Hospital	13.94	5.64
Leighton Barracks	340.48	137.79
Sub Total AST Würzburg	389.73	157.72
AST Kitzingen		
Harvey Barracks*	619.03	250.52
Larson Barracks Cantonment Area**	311.95	126.24
Marshall Heights	79.57	32.20
Schwanberg Radio Site	0.86	0.35
Sub Total AST Kitzingen	1011.41	409.31
AST Giebelstadt		
Giebelstadt Area	634.85	256.92
Sub Total AST Giebelstadt	634.85	256.92
Total Cantonment Areas	**2,035.99**	**823.95**

FACILITIES AND DESCRIPTION

Locations	Facilities Description
	AST Würzburg
Breitsohl Radio Site	This facility is located off of the B8 near Rohbrunn and consists of a radio relay site. There is a small access road leading to a paved car park.
Faulenberg Kaserne	This location provides administrative buildings and warehouse facilities. For example, Headquarters for the 98th ASG, 106th Finance Battalion and 69th Signal Battalion, BSB DPW are all located at Faulenberg Kaserne. There is a cobbled stoned road network with many car parks and most of the road network is a one way system. Faulenberg Kaserne is located off of the B8 (Nürnbergerstrasse) in the city of Würzburg.
U.S. Hospital	This location consists of a large U.S. Army Hospital and is the Headquarters of U.S. MEDDAC Würzburg 67th Combat Support Hospital. There is a paved road network system with car parks. The U.S. Hospital is located off of Marianne Hill Street.
Roman Hill Range	This location provides military training facilities and details are given in Chapter 3. It has a paved road network lead to the ranges.
Leighton Barracks	This location provides administrative, housing, warehouse, maintenance and quality of life/community support facilities. For example, Headquarters 1st Infantry Division (1ID), Company 101 MI BN, Grade and Officer's grade housing, one of the largest PX's in Europe, Community Bank and Credit Union, and several schools are all located at Leighton Barracks. There is a paved road network/system including large paved parking areas and a helicopter pad. Leighton Barracks is located on Rottendorfer Strasse. Rottendorfer Strasse runs through the entire site.

Locations	Facilities Description
	BSB HQ Area Kitzingen
Fahr	This location provides military training facilities. This facility is located on the Main River just west of the village of Fahr.
Gerlachshausen	This location provides military training facilities. This facility is located on the Main River just west of the village of Gerlachshausen.
Harvey Barracks	This location provides administrative, housing, warehouse, maintenance, and quality of life/community support facilities and military training facilities. For example, Richthofen and Corlette Circle housing areas, DISCOM, 701 MSB, 417th BSB HQ, outdoor recreation, community church, paint ball and post office are located at Harvey Barracks. There is a paved road network with car parks, a runway and a railway line. Part of the road system consists of narrow one way streets. This facility is located off of Staatsstrasse ST2272.
Klosterforst	This location provides military training facilities. This facility is located off of Staatsstrasse ST2272.
Larson Barracks	This location provides administrative, troop housing, warehouse, maintenance and quality of life/community support facilities and military training facilities. For example, Headquarters 17th Signal Battalion, 121st SIG BN, 4-3 ADA BN, library, community bank, auto-craft shop, and outdoor swimming pool are located at Larson Barracks. There is a paved road network with some cobble stones, car parks and a helipad. Details on the military training facilities provided on the adjacent training area are given in Chapter 3. This facility is located off of Adam-Kleinschroth Strasse.

Cont. Area Kitzingen

Locations	Facilities Description
	BSB HQ Area Kitzingen
Marshall Heights	This location provides family housing, schools and quality of life/community support facilities. For example, youth services and elementary school. There is a paved road network with car parks. This facility is located off of the B8 on Repperndorfer Strasse.
Michelfeld	This location provides military training facilities. This facility is located between Marktsteft and Mainbernheim just south east of the village of Michelfeld.
Schwanberg Radio Site	This location provides a radio relay site. This facility is located between Rodeisee and Wiesenbronn. There is a private road leading to a small paved car park which is situated next to the site.

Locations	Facilities Description
	AST Giebelstadt
Giebelstadt Army Airfield	This location is shared with the Bundeswehr. Administrative, warehouse, maintenance and quality of life/community support facilities are provided. For example, the quality of life facilities include a bowling ally, auto-craft shop and outdoor swimming pool. There is a road network with car parks and a runway. This facility is located off of the B19.

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3.0 PROGRAM ORGANIZATION AND ADMINISTRATION

The asbestos management program at the 417th BSB (Kitzingen) will collectively be administered by the Asbestos Management Team (AMT). The AMT will rely primarily on the efforts of the BSB Asbestos Program Manager (APM) (a member of the AMT) to carry out policy developed by the AMT and bring asbestos concerns to the attention of the AMT.

3.1 ASBESTOS MANAGEMENT TEAM (AMT)

The 417th BSB (Kitzingen) has established an AMT (former called Asbestos Control Committee (ACC)) to oversee asbestos management at the BSB level. The AMT holds meetings (normally quarterly) to review the status of the BSB Asbestos Management Program, identify problem areas, and prepare future action plans.

Copies of the BSB AMT meeting minutes are maintained by the APM and are provided to the BSB Environmental Quality Control Committee (EQCC) and/or members of the BSB AMT as relevant issues arise.

Table A-1 (in Appendix A) lists the names, office location, and phone number of the current members of the BSB AMT.

3.2 BSB AMT MEMBERS AND KEY ORGANIZATIONS

The APM is responsible for the management and update of the program and for instituting a system of accountability to ensure compliance with legal, regulatory, and policy requirements pertaining to asbestos. The members of the AMT will ensure that accurate information concerning potential health risks associated with exposure to airborne asbestos fibers and dust is disseminated BSB-wide and that BSB personnel involved in the management and assessment of ACM receive adequate and appropriate training. Members of the 417th BSB (Kitzingen) AMT are:

3.2.1 BSB Asbestos Program Manager

The APM, appointed by the BSB commander, has the responsibility and authority to implement the asbestos program. The APM located at the DPW Environmental Management Office (EMO), serves as the single point of contact for all asbestos-related activities and shall coordinate these activities and requirements with the Chief, EMO.

The APM oversees all asbestos activities, and maintains files containing asbestos records and documentation.

3.2.2 BSB Directorate of Public Works (DPW)

The Director of Public Works serves as the BSB CDR's primary representative for implementation of the BSB Asbestos Management Program and ensures that BSB asbestos requirements (surveys, plans, abatement projects) are programmed. The DPW C/ERM ensures also that work activities are reviewed for asbestos hazards in buildings. The DPW C/EP&S makes sure that projects are checked for asbestos and the APM is notified of any abatement activities planned. The DPW C/Utilities and C/Buildings & Grounds make sure that in-house workers comply with asbestos safety regulations, and that they receive the required training and annual briefings about asbestos hazards.

3.2.3 1st ID Staff Judge Advocate

The Staff Judge Advocate (SJA) will provide legal insight to asbestos management issues. AMT members should consult the SJA on liability and regulatory compliance issues relating to an abatement project.

3.2.4 Civilian Personnel Office (CPO) and Works Council

The AMT representative from the CPO = Civilian Personnel Assistance Center (CPAC) and Works Council should address any labor issues that arise. The Works Council also recommends appropriate hazardous-duty pay / severity allowances for employees involved in asbestos abatement or maintenance projects.

3.2.5 BSB Public Affairs Office

The BSB Public Affairs Office (PAO) will determine when the local community should be informed of asbestos issues. The PAO, with input from the AMT, will be responsible for determining the most appropriate methods to inform the community. The PAO will serve as the primary liaison between the general public and the AMT.

3.2.6 BSB Safety Office

The BSB Safety Office will educate the AMT members on the current and most protective safety practices and control methods available in the asbestos industry. The Safety Office, which is responsible for monitoring the training and safety of the workers, will provide guidance on current practices and methods in use within the BSB and ways of ensuring the safety of workers handling asbestos. The Safety Office may provide a variety of training to workers in the BSB. The Safety

Office also helps with fit testing of in-house employees for respirator use, surveys, and hazard assessments.

3.2.7 Others

3.2.7.1 98TH ASG OHP, INDUSTRIAL HYGIENE OFFICE

The Industrial Hygiene Office identifies and quantifies occupational asbestos exposures. They provide recommendations on controls of airborne worker exposure and recommend workers to the Occupational Health Nurse for inclusion or removal from medical surveillance.

3.2.7.2 98TH ASG OHP, OCCUPATIONAL HEALTH NURSE

The OH Nurse coordinates the medical surveillance program to ensure that employees receive the required medical surveillance.

3.3 WORK CONTROL/WORK PERMIT SYSTEM

A work control/work permit system enables the APM to control work conducted by facility personnel and contractors that could disturb ACM. The work is controlled by setting up a system of checks and balances utilizing a work permit. An example work permit is included in Appendix B, Sample Forms.

The APM will provide DPW ERM Work Coordination Office with a list of buildings known to contain ACM (refer to Section 4.0). All work orders should originate in the Work Coordination Office. Therefore, it will be the primary responsibility of the Work Coordination Office to determine whether further ACM investigation is needed before the requested work can begin. If work is requested in a building where ACM can be destroyed, then a work permit will be completed and forwarded to the APM for further review. If work is requested and ACM is present but not likely to be disturbed, the APM will note the location on the work permit and reiterate the importance of not disturbing the area.

3.4 RECORDKEEPING

It is imperative that good recordkeeping practices be followed. Health effects related to asbestos exposure may not be observed for many years after the exposure. Therefore, good work practices must be combined with regimented recordkeeping procedures in order to limit potential future liability. A separate, lockable file drawer has been established and is maintained by the

APM for asbestos management program records and documentation (see Table A-2 in Appendix A for locations of files).

The following outline organizes recordkeeping requirements by various asbestos management concerns:

Asbestos Identification

- Documentation identifying the presence, location, and quantity of ACM.
- Documentation of ACM inventory, including urgency of abatement determinations.

Asbestos Inspection, Sampling, and Assessment

- ACM inspection and assessment reports.
- Suspect ACM sample collection data.
- Chain-of-custody documentation.
- Laboratory analytical results for suspect ACM samples supporting the positive/negative ACM determination.

ACM Surveillance

- ACM and/or PACM re-inspection and reassessment reports.

Response Actions

- Documentation regarding the Asbestos Hazard Emergency Response Act (AHERA) ACM classification for all identified ACM and/or PACM.
- Documentation regarding the response action implemented for all identified ACM according to the Urgency of Abatement Scoring method.
- ACM removal documentation (e.g., work specifications, abatement designs, asbestos containing material removal permits, final inspection reports, clearance air sampling data and laboratory analytical results for all clearance air samples collected).

Notification

- Copies of all notification(s) provided to BSB personnel and building/facility occupants.
- Copies of all other information and educational materials pertaining to ACM that are distributed to BSB personnel, building/facility occupants, or other individuals.

Training (referenced documents are included in Appendix B)

- Training documentation for BSB personnel who require training.
- Accreditation documentation for BSB personnel who require accreditation.
- Training and accreditation documentation for contractor personnel performing asbestos work activities at the BSB.

Worker Protection

- Documentation of exposure assessments conducted at the BSB.
- Documentation of exposure monitoring conducted at the BSB.
- Copies of all exposure monitoring notifications provided to BSB personnel.

- Air sample collection data.
- Laboratory analytical results for all asbestos air samples collected.
- Written respiratory protection program.
- Documentation of respirator fit testing for BSB personnel who require fit testing.
- Medical examination records for BSB personnel who require medical surveillance.

Work Control/Work Permit System

- Work Authorization / Work Permit documentation for activities that might disturb ACM.
- Written descriptions of engineering controls and operations and maintenance (O&M) work practices implemented during asbestos work activities.
- Written descriptions of site visits to observe and evaluate work practices implemented during asbestos work activities.
- Written procedures to prevent the use of ACM in new construction.

Asbestos-Containing Waste Disposal

- Waste shipment records, including asbestos waste manifests.

Asbestos in Drinking Water

- Drinking water monitoring records pertaining to asbestos monitoring.
- Laboratory analytical results for all asbestos drinking water samples.

Vehicular Brake and Clutch Servicing

- Written procedures describing engineering controls and work practices implemented to control worker exposure to asbestos during vehicular brake and clutch servicing.

3.5 NOTIFICATION

A notification program has been developed to inform employees and the Works Council, tenants, building occupants, visitors, and regulatory agencies of asbestos-related activities and hazards. Descriptions of the type and location of potentially friable ACM, and the means by which personnel will avoid disturbing the ACM, must be included in each notification. The following section serves as the public information subplan required by UR 200-1.

The APM will inform all workers, the Works Council, tenants, and building occupants of ACM within their respective facilities via newsletter or community publication written in a language that is understandable to the person receiving the notification. The newsletter/publication will be issued at least annually, or when there is a change in the condition of the ACM in the facility.

The U.S. Army, as an employer, must immediately inform the affected workers and the Works Council or Personnel Council if, during demolition or reconstruction activities, the work area asbestos fiber concentration has exceeded 15,000 f/m^3 at the workplace and provide an explanation for the occurrence.

The APM will provide written notification to visitors and contractors regarding the presence of ACM and specific procedures to be followed. Visitors and contractor employees (e.g., painters, HVAC technicians, roofers, electricians, and plumbers) should read the notification, and each individual should sign an acknowledgement form stating that they have read and understand the notification. A sample notification form is included in Appendix B of this document. Copies of the acknowledgements shall be maintained on file for the period of performance of the specific contract.

All contracts dealing with asbestos abatement shall be adequately worded to require the contractor to notify the proper regulatory agencies. Otherwise, the APM is responsible for notifying the appropriate regulatory agencies. The following is a list of local regulatory agencies that may require notification:

Table 3-1. Regulatory Agencies Requiring Notification

ORGANIZATION OR AGENCY	POC & TITLE	ADDRESS/LOCATION	PHONE
Gewerbeaufsichtsamt Wuerzburg	Herr Zapf, Dezernatsleiter	Georg-Eydel-Str. 93, 97082 Wuerzburg	0931-4107613
Wehrbereichsverwaltung Sued, Aussenstelle Muenchen, Dezernat II 7	Herr Kahabka	Dachauer Str. 128, 80637 Muenchen	

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4.0 ASBESTOS SURVEY/INSPECTION AND ABATEMENT

The following sections provide asbestos management information specific to each of the installations within the 417th BSB (Kitzingen). General information regarding the 417th BSB was presented in Section 2.0 of this plan.

Asbestos inspections/surveys were previously performed in order to identify the presence of ACM in 417th BSBs locations, real or leased property in accordance with FGS requirements. Table D-1 in Appendix D lists all results of contractors or in-house personnel that have conducted asbestos inspections or surveys.

4.1 PREVIOUS INSPECTION RESULTS AND URGENCY OF ABATEMENT SCORES

Table D-2 in Appendix D contains the most recent results from the inspection/survey of each building within the 417th BSB (Kitzingen).

The materials that were found to contain asbestos are listed, and the Urgency of Abatement Scores have been determined and included for each listed ACM. The urgency of abatement action was determined using the Asbestos Products Assessment of the Urgency of Abatement form (refer to Appendix B) and guidelines (refer to Section 6.1.3). Personnel responsible for implementing response actions should refer to the original survey results before renovation or abatement work is conducted in the following buildings.

4.2 ABATEMENT ACTIVITIES

Prior to the initiation of demolition, renovation, or maintenance work, a determination must be made if ACM will be encountered during planned or anticipated activities. If there is any doubt if ACM is present, a sample of the suspect material will be collected and analyzed. All ACM must be removed prior to demolishing a facility. Before disturbing or demolishing a facility or part of a facility, actions will be taken to remove all friable ACM, or ACM with a high degree of probability of becoming friable once disturbed during demolition. ACM must be removed if it poses a threat to release airborne asbestos fibers and cannot be reliably repaired or isolated. Responsible individuals and members of the BSB AMT must ensure that adequate personnel and technical safety equipment are provided for the performance of demolition and remediation activities.

A work plan must be developed before the demolition of structural facilities or the removal of ACM from buildings and equipment. The work plan, which, in most circumstances, should be prepared by the abatement contractor, must describe the required worker protection measures as well as

the specific methods of ACM removal and disposal that will be employed. When demolition or extensive renovation is planned, the following must occur:

a. Responsible personnel must determine whether the planned demolition/renovation will remove or disturb ACM.

b. Prior to the start of demolition, renovation, and maintenance (DRM) activities, as defined in Chapter 15 of the FGS for Germany, that involve the removal or disturbance of ACM, a written assessment of the demolition, renovation, or maintenance action must be prepared and provided by the proponent. A copy of the assessment must also be kept on permanent file.

c. All ACM must be removed prior to demolishing a facility. Before disturbing or demolishing a facility or part of a facility, actions will be taken to remove all friable ACM and ACM with a high degree of probability of becoming friable once disturbed during demolition.

Personnel assigned to the in-house abatement team should consult with the BSB AMT to determine the applicability of U.S., USAREUR, and HN regulations (including TRGS 519) to their specific work activities.

4.3 RECOMMENDED MANAGEMENT ACTIONS

Table G-3 (in Appendix G) summarizes the recommended management actions to be taken on ACM**.** Recommended management actions may include, but are not limited to: abatement, encapsulation, enclosure, reassessment, O&M, and repair (refer to Definitions).

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5.0 WORKER PROTECTION

ACM generally does not pose a health risk to building/facility occupants when it remains intact and undisturbed. Through the proper management of ACM, the release of asbestos fibers into the air is prevented or minimized, and the risks of asbestos-related diseases can be reduced to negligible levels. In order to protect workers in asbestos-related activities at the 417th BSB (Kitzingen), work procedures must be implemented to prevent the release of asbestos fibers, to the extent possible, and using the best available technology,.

5.1 HEALTH EFFECTS

ACM can present a potential health risk to building/facility occupants and employees when the materials are damaged of disturbed, resulting in elevated airborne asbestos fiber concentrations.

Inhalation of asbestos fibers can cause certain respiratory ailments and diseases. To date, no safe level of asbestos exposure has been determined, and it is generally assumed that “zero” exposure is the level most protective of human health.

A feature common to all types of asbestos-related diseases is the long latency period (i.e., the length of time for the symptoms of a specific disease or condition to develop or appear after the initial exposure). The latency period for asbestos is 10 to 40 years. Specific diseases associated with exposure to asbestos include:

- asbestosis (scarring of lung tissue, or pulmonary fibrosis);
- mesothelioma (cancer of the pleural lining of the peritoneal cavity);
- lung cancer; and
- gastrointestinal tract or digestive tract cancers.

5.2 GENERAL REQUIREMENTS

When asbestos related work is performed within the BSB, medical monitoring, PPE / PCE determination, and health issues related to potential ACM exposure will be addressed to the appropriate DoD medical authority (e.g., OHN). The appropriate German authority must be notified by the in-house abatement team or by the contractor at least 14 days prior to the commencement of work.

Asbestos abatement projects pose unusual hazards not commonly encountered in other types of construction-related activity. Protection of the health and safety of workers responsible for asbestos abatement will include, at a minimum, the following: awareness

training, including the health effects associated with asbestos exposure; assignment of individual responsibility for required activities; selection and use of appropriate PPE / PCE and respiratory protection equipment; instruction in the care and use of respiratory protection equipment; and medical evaluation to determine appropriate work assignments.

Employees who handle asbestos-containing hazardous substances must be informed of the potential risks and protective measures, and this information may be conveyed to the employees in the form of standard operating procedures (SOPs), "Betriebsanweisungen", work plans and instruction that include the following information:

- description of the work areas, workplace, and activity;
- identification of hazards to humans and the environment;
- special precautions and work restrictions for pregnant women and women of childbearing age;
- protective measures, rules of conduct, and health measures;
- conduct during an emergency;
- first aid measures; and
- waste disposal.

Verbal instruction must be provided on the content of SOPs before the employee commences work and thereafter at least annually. The instruction must be relevant to the specific workplace. Female employees and of childbearing age must be provided additional information regarding the potential hazards for expectant mothers and the restrictions to their employment activities.

The U.S. Army, as an employer, may not assign youths to work activities in which asbestos fibers may be released, including for training or apprenticeship purposes. The employer may not assign expectant or nursing mothers to work activities in which they may be exposed to asbestos fibers. Responsible personnel should seek information on worker protection related topics from the BSB Safety Office, the U.S. Army Center for Health Promotion and Preventive Medicine, Europe (CHPPM-EUR), or other DoD medical authority.

The U.S. Army, as an employer, shall provide PPE / PCE that is suitable for the substances that the employees may be exposed to. Employees shall maintain the equipment in a useful and clean condition.

5.3 MEDICAL SURVEILLANCE PROGRAM

The AMT must establish and monitor a medical surveillance program for workers who might come into contact with asbestos while performing their assigned duties and for workers who are required to wear respirators. For American employees, the medical surveillance program must be developed in accordance with Occupational Safety and Health Administration (OSHA) regulations 29 CFR 1910.134, Respiratory Protection, and 29 CFR 1926.1101, Asbestos. For local national employees, the program must be developed in accordance with the FGS for Germany and applicable Host Nation occupational health regulations. Medical surveillance (G 1.2, G 26.1) has to be performed at an approved surveillance service through the 98th ASG Occupational Health Section for asbestos related diseases and ability to wear a mask.

The regulations require an initial medical examination of the employee prior to assignment to asbestos related work and follow-up examinations of the employee's health status. If an asbestos fiber concentration of 15,000 f/m³ is exceeded in a workplace area, then only workers who have undergone a physical examination within the last 12 to 36 months may work there. Medical examinations must consist of, at a minimum, a chest X-ray, patient history to elicit warning signs or symptoms of disease, and a pulmonary function test including evaluation of forced vital capacity and forced expiratory volume. The AMT should develop and institute the program in cooperation with the OHN (see Appendix A AMP, Table A-1), and responsible personnel should refer to TB MED 513 for specific details pertaining to examinations.

When asbestos related work is performed on the BSB by an outside contractor, it is the contractor's responsibility to ensure that all contractor abatement workers receive medical examinations in accordance with regulatory requirements. The contractor must provide a letter or similar documentation from the examining physician stating that the employee is medically fit to perform asbestos abatement work.

5.3.1 Respiratory Protection Program

The BSB must prepare and institute a Respiratory Protection Program (RPP) that includes the requirements stated in 29 CFR 1910.134, 29 CFR 1910.1001, 29 CFR 1926.1101, American National Standards Institute (ANSI) Z88.2, AR 11-34, and Medical Technical Bulletin (TB MED) 502. The OSHA regulation, 29 CFR 1910.134, requires that a written RPP be provided to all employees who may wear a respirator. When planning asbestos abatement projects, the BSB AMT should consult the Army Respiratory Protection Program (ARPP), AR 11-34, which outlines the Army's organization of the program and Army personnel responsibilities, as well as the BSB-specific RPP.

Whenever the engineering controls and work practices that can be instituted are not sufficient to reduce exposure to or below the OSHA Permissible Exposure Limit (PEL) and/or excursion limit, the BSB must supplement these measures through the use of respiratory protection. The BSB is also required to establish and implement a written program to reduce exposure to or below the OSHA PEL and/or the excursion limit by means of engineering and work practice controls as required and by the use of respiratory protection as needed. The BSB must provide respirators and ensure that they are used when required.

Contractors must conduct a monitoring program in accordance with procedures established in "The Protection of Workers Against Asbestos Hazards at the Workplace," published by the Federal Minister for Employment; DoD components may use other monitoring programs if they provide the employee the same or a greater level of protection.

BSB employees who have been evaluated by a physician and approved to wear a respirator must undergo fit testing using the respirator assigned to them. Each employee must receive instruction in the proper use, care, and limitations of the respirator. Employees have to undergo a fit testing by the 417th BSB Safety Office or 98th ASG Industrial Hygiene. Whenever the employee wears the respirator he/she must perform a fit check to ensure proper fit and an airtight seal are achieved. Employees utilizing negative pressure air purifying respirators must be free of facial hair that would interfere with the face-piece seal.

5.3.2 Recordkeeping

Records pertaining to the medical surveillance and respiratory protection programs are maintained by the Occupational Health Office, Faulenberg Kaserne, Bldg. #221. Contractor medical and respiratory protection documentation is included with original files for abatement projects in the DPW EMO, (refer to Table A-2 in Appendix A for location).

5.4 WARNING SIGNS AND LABELS

Work areas in which the presence of asbestos fibers cannot be ruled out must be clearly partitioned from other areas and, to the extent practicable, must be sealed off dust-tight and marked with appropriate signs. Signs should be created and posted in accordance with Chapter 15 of the FGS for Germany and the OSHA and EPA protection regulations contained in 29 CFR 1910, 29 CFR 1926.1101, and 40 CFR 763. Warning signs should be provided in both English and German languages. Examples of appropriate warning signs can be found at Appendix B.

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6.0 ACM INSPECTION, ASSESSMENT, AND SURVEILLANCE

A consistent asbestos inspection, sampling, and assessment program is necessary to ensure both the quality and completeness of data generated. This section of the AMP addresses procedures associated with asbestos inspections, sampling of suspect ACM, and assessment of the hazards posed by ACM.

The asbestos inspection, sampling, and assessment procedures presented in this section are based on AHERA requirements. Although AHERA inspection requirements only pertain to DoDDS and CDC buildings and facilities, these requirements serve as the most protective guidelines available. It is recommended, not required, that AHERA or equally protective guidelines be followed. Annual re-inspection and periodic surveillance is required by AHERA for all buildings at the BSB where ACM is present.

6.1 CONDUCTING ACM INSPECTIONS & SURVEYS

UR 200-1 requires the installation to identify and maintain an inventory of the ACM present in USAREUR-controlled and USAREUR-leased facilities. Chapter 15, Asbestos and Artificial Mineral Fibers, of the FGS for Germany requires the installation to develop an ACM inventory via sample analysis or visual determination.

DoDDS and Child Development Center (CDC) facilities must be inspected in accordance with AHERA requirements, and it is recommended that all other facilities be surveyed using AHERA requirements as a guideline in order to ensure the quality of data and consistency of methodology and results.

6.1.1 Inspection/Survey Methodology

Asbestos inspection and survey activities at 417th BSB (Kitzingen) buildings and facilities must always be conducted by an individual properly qualified to perform this type of work as dictated by the applicable regulations and the governing authority of the state or locality.

All accessible areas within a building/facility (or within the particular work site associated with a renovation or demolition operation) must be visually inspected for suspect ACM. All locations of suspect ACM must be identified by the asbestos building inspector. All accessible suspect ACM must be surveyed by the asbestos building inspector to determine whether such materials are classified as friable.

Homogeneous areas of both friable and nonfriable suspect ACM must be identified by the asbestos building inspector. A homogeneous area is an area of suspect ACM that appears uniform in terms of color, texture, and age. Each homogeneous area of suspect ACM must be (1) categorized by the inspector by type of material (see Definitions); (2) quantified in terms of area (e.g., square feet or meters), length (e.g., linear feet), or item (e.g., each), depending on the type of suspect ACM; and (3) assigned a unique identification number.

At a minimum, the identification and inspection of suspect ACM shall document the following information:

- Damage determination (i.e., good condition, damaged, significantly damaged);
- Estimated percent damage;
- Localized/distributed damage;
- Potential for ACM contact by building/facility occupants;
- Influence of vibration on the ACM; and
- Overall potential for disturbance of the ACM.

Where necessary and appropriate, photographs of ACM are recommended to document the location and condition of the ACM. Conditions where photographs are appropriate include: visible significant damage to suspect ACM; the presence of asbestos debris on surrounding surfaces; and instances when a photograph would assist in locating, identifying, or describing the ACM.

Each photograph should be assigned unique photograph identification by the asbestos building inspector for reference purposes. The object and purpose of the photograph should also be documented.

6.1.2 Sampling and Analysis

The ACM inspection/survey will include collection of a sufficient number of representative bulk samples of the various types of suspect ACM identified by visual walk-through of the building or facility. Collection of bulk samples and repair of sampled areas will be conducted in accordance with current regulations, accepted industry standards, and BSB-specific SOPs. Only persons who are certified (by USEPA standards) or qualified (by HN standards) may collect samples. Persons collecting samples must use protective equipment appropriate to the type of suspect ACM being sampled and the conditions in the area being inspected/surveyed.

It is recommended that a minimum of three bulk samples be collected for each homogeneous area of friable suspect ACM. A minimum of two bulk samples should be collected for each

homogeneous area of non-friable suspect ACM. In addition, one quality control (QC) sample should be collected for every 20 samples or per building, whichever is greater. QC samples should be collected from the area immediately adjacent to the sample. If the QC samples submitted to the laboratory are grouped with the regular samples, the QC samples should be labeled as regular samples to prevent the laboratory identifying them as QC samples.

All samples should be properly containerized in airtight vessels (e.g., sealable plastic bags, canisters) and labeled using a unique numbering system that is easily understood by the persons who will perform the ACM assessment based upon the laboratory analytical results. The sampling documentation (e.g., field log, sampling report, chain of custody) must include the BSB and installation name, building number or facility name, room number (if applicable), location (e.g., distance measurements and directional indicators, triangulated reference points), date, unique sample identification number, name of sampler, and type of material sampled.

Samples should be shipped or delivered to the analytical laboratory in such a manner as to prevent the release of any asbestos fibers and to allow the samples to arrive at the laboratory in suitable condition for analysis. The method of analysis and turnaround time requested should be specified on the chain of custody.

Analysis of bulk asbestos samples should be performed by:

a. DoD laboratories approved by the U.S. Army and Host Nation where applicable;

b. OCONUS laboratories meeting German regulatory and accreditation requirements; or

c. CONUS laboratories certified in accordance with USEPA requirements and participating in the National Voluntary Laboratory Accreditation Program (NVLAP).

6.1.3 ACM Assessment

The FGS for Germany require that the urgency of abatement of ACM be determined using a standard form. The risks are assessed by criteria such as asbestos type, surface structure, location of the asbestos product, and use of the area/room. Classification points are assigned to each criterion. The sum of these classification points yields the urgency of abatement as follows:

≥ **80 points**: Urgency Level I:
immediate abatement or implementation of temporary measures to reduce airborne asbestos concentrations is required;

70 to 79 points: Urgency Level II:
a new assessment is required in the medium term, and the product score should be reassessed at least once every 2 years; and

< 70 points: Urgency Level III:
a new assessment is required in the long term, and the product score should be reassessed at least once every 5 years.

If the urgency of abatement determination yields Urgency Level I, immediate abatement is required, because a significant hazard is present. In case the immediate and complete abatement is not possible, immediate measures to reduce the release of asbestos fibers must be taken and access to the affected area must be restricted. If the Urgency of Abatement determination yields Urgency Levels II or III, the abatement will only be required when subsequent reassessments result in Urgency Level I.

6.2 PERIODIC REINSPECTION/SURVEILLANCE

O&M programs must be implemented for facilities where friable ACM has been identified. In accordance with EPA requirements, O&M programs must include provisions for surveillance/re-inspection of friable ACM of Urgency Level I of at least every six months. The FGS for Germany require reassessment of ACM if the initial Urgency of Abatement determination yields Urgency Levels II or III. Such reassessments are to recur at least once every two years, in the case of Urgency Level II, and, at least once every five years in the case of Urgency Level III.

6.3 DOCUMENTATION & RECORDKEEPING

A complete record of asbestos inspection records is assembled and maintained by the APM. The information contained in the file for each installation, building, and facility on the 417th BSB (Kitzingen) is readily available for review by personnel responsible for facility alteration, renovation, and construction projects, health and safety programs, contractor and employee notification, and maintenance (refer to Appendix A for location of records/files). When contractors are used for inspections, surveys, maintenance services, demolition or construction, ACM abatement, or waste transportation and disposal, final payment should be contingent upon the receipt of all required asbestos-related documentation.

According to PWTB 420-70-8, all records pertaining to an asbestos abatement should be kept in a permanent file and maintained indefinitely. The TRGS 519 requires that records pertaining to

determination of asbestos fiber concentration and air monitoring results be kept by the employer for 60 years.

7.0 OPERATIONS AND MAINTENANCE PROCEDURES

Whenever any friable ACM or asbestos-containing TSI is present in a building, O&M activities must be initiated. An O&M program will immediately be implemented if the laboratory analysis of bulk samples confirms the presence of asbestos in sampled materials. The O&M program is designed to: clean up asbestos fibers that have been released, minimize disturbance of or damage to ACM, and inform asbestos workers of the proper methods of abating, handling, and disposing of ACM. The O&M program will remain in effect until all ACM is removed or the building is demolished. For details on O&M practices see also Appendix H, SOPs for Asbestos-containing Materials.

7.1 O&M WORK PRACTICES AND ENGINEERING CONTROLS

The effectiveness of the O&M program depends upon the awareness of building occupants and workers of the presence and condition of ACM. Custodial and maintenance personnel must be trained in proper techniques for cleaning and maintaining building areas that contain ACM. In general, personnel must avoid working on asbestos products with tools that remove the product surface through sanding, high pressure cleaning, or scraping.

Employees must not be knowingly exposed to asbestos containing hazardous substances. The "clean air level" is 500 fibers/cubic meter (TRGS 519, VDI 3492). The only exception is demolishing, abatement, or maintenance work at existing facilities, buildings, vehicles or equipment with asbestos containing materials. A determination on whether employees will be exposed to asbestos must be done before start of work (German "Gefahrstoffverordnung" and TRGS 519). The Works Council and the employees must be informed by the supervisor about results of these evaluations. The recommended protection measures and personnel protective equipment shall be explained by the supervisor.

This information is provided in English and German languages for copying and distribution to all affected and responsible employees.

7.1.1 Initial Cleaning Using a High Efficiency Particulate Air (HEPA Filter) Vacuum

Unless a building has been cleaned using appropriate methods within the last six month, all areas of the building where friable ACM, damaged or significantly damaged asbestos-containing TSI, or friable PACM are present should be cleaned at least once after the initial inspection has been completed and prior to initiation of any response action other than O&M activities and repair. Custodial staff will perform initial cleaning. A HEPA-filtered vacuum cleaner, not a conventional

vacuum cleaner, should always be used to clean areas where ACM is present. The used HEPA filters and vacuum cleaner bags should be placed in plastic bags and sealed and marked for disposal as ACM-contaminated waste in accordance with applicable regulations. HEPA filtered vacuuming procedures are as follows:

a. For floors, use a floor attachment with rubber floor seals and adjustable floor-to-attachment height. Use a crevice brush or other tool(s) to clean irregularly shaped surfaces.

b. Vacuum hard or smooth surfaces with the attachment set 1/16 inch above the surface.

c. For furniture, fabrics, or other surfaces, use an upholstery attachment or brush attachment. Vacuum the carpet or fabrics with the attachment just touching the surface.

d. Vacuum all surfaces in parallel passes with each pass overlapping the previous by one-half the width of the attachment.

e. Once surfaces are cleaned in one direction, clean a second time at right angles to the first cleaning.

7.1.2 Steam Cleaning Carpet

Affected areas throughout the building will be steam cleaned with a HEPA-filtered vacuum cleaner. Carpet steam cleaning procedures are as follows:

a. Steam clean carpet using a carpet tool.

b. Steam clean all surfaces in parallel passes with each pass overlapping the previous one by one-half the width of the attachment.

c. Once surfaces are cleaned in one direction, clean a second time at right angles to the first cleaning.

d. Water from the cleaning process should be properly treated and/or disposed.

7.1.3 Polyethylene Drop Cloth

Preparing a work area with a drop cloth requires that a single layer of polyethylene be spread on the floor of the work area and taped or weighted in place. Use more than one layer if ladders or similar equipment will be used, and place a temporary hard surface such as plywood over the drop cloth. If the floor is a soft material (e.g., carpet), use caution to prevent the tearing of

polyethylene under equipment. The drop cloth should be large enough to catch falling debris. If work is to be performed at an elevated level, the drop cloth should be placed on the work platform or extended at ground level beyond the immediate work location to catch any debris that might be generated. Note that the use of a drop cloth introduces potential slip hazards in the work area. Non-slip foot coverings are recommended where drop cloths are used.

7.1.4 Local Exhaust Ventilation Using Negative Pressure Systems and HEPA Filters

Enclosure systems should be provided with a negative pressure system (pressure differential system) to reduce the possibility of fibers being released from the enclosure during the work and to filter inside air discharged from the enclosure. Negative pressure inside mini-enclosures is provided by a HEPA-filtered vacuum or negative pressure machine(s) depending upon the size of the enclosure.

The TRGS 519 provides information for establishing exhaust ventilation systems and exhaust air filtration. Additional guidance, including suggested rates of air circulation in terms of air changes per hour, can be found in The National Institute of Building Sciences (NIBS) Asbestos Abatement and Management in Buildings: Model Guide Specifications; Section 01413, "Temporary Pressure Differential and Air Circulation System."

A HEPA filtered vacuum usually will provide sufficient negative pressure for a small enclosure (see TRGS 519). Larger enclosures might require larger negative pressure machine(s) to achieve the required negative pressure.

A negative pressure system for a mini-enclosure most commonly locates the HEPA-filtered vacuum or negative pressure machine outside the enclosure. The intake side of the unit is ducted to the enclosure through the vacuum hose or flexible duct material and taped to a hole in the enclosure on the side opposite from the change room or as close as possible to where the work will be performed. The filtered exhaust side of the unit should be ducted to the outside if possible. Most vacuum units do not provide a connection for an exhaust duct and are commonly exhausted to the inside. Additional protection might be desirable for an area where the air is exhausted to the inside of a building.

7.2 GENERAL O&M WORK PROCEDURES

The following section is included to provide guidance to personnel for conducting maintenance, repair, and minor renovation work on or near asbestos in accordance with an established asbestos management program and applicable HN regulations. The APM will work with

individual unit environmental coordinators, shop foremen, and managers to develop O&M procedures specific to their facilities and activities.

For the 417th BSB DPW inhouse personnel the O&M procedures will be governed by TRGS 519 procedures, and only the following types of work will be conducted:

- Abatement, repair and maintenance work classified as "work with low exposure" (see Appendix AMP-6, Table 3) IAW TRGS 519.

- Removal and maintenance of asbestos-cement type (transite) materials in case of emergencies only (storm).

- Removal of small parts of pipe insulation with glove bag technique to repair broken pipes in case of emergencies only. Except direct emergency work, all asbestos work will be done by a certified asbestos contractor only.

7.2.1 Setting Up Work Areas

It should be noted that polyethylene work area protection is not to replace other engineering controls and good work practices. Work practices such as wetting ACM, careful handling, local collection by HEPA-filtered vacuum, and local exhaust ventilation with HEPA-filter should be the primary means of fiber control during asbestos work activities. Polyethylene protection, glove bags, and mini-enclosures are intended as a secondary means of protection during the work activities.

Preparation of work areas for asbestos work activities typically involves the use of a polyethylene drop cloth or mini-enclosure. Other techniques, such as the use of a glove bag taped over a self-supporting framework or a “glove box” enclosure, might also be used as a substitute for these methods where appropriate.

7.2.2 Cleaning

Tools and equipment shall be cleaned using HEPA-filtered vacuuming and/or wet-wiping procedures. Special attention should be given to cleaning extension cords, equipment wheels, vacuum hoses, and other items that could pick up debris during the asbestos work activities. Tools and equipment should be placed outside of the work area as soon as cleaning is completed to prevent recontamination. Drop cloths and mini-enclosures can be cleaned or disposed of as ACM. Items that cannot be completely cleaned and that may be used on another asbestos work site can be placed in disposal bags, sealed, and labeled. These bags should be wet wiped and

placed outside the work area. Similarly, HEPA-filtered vacuum hoses can be sealed with tape over both ends and cleaned prior to being placed outside the work area.

Cleaning of the work area where an asbestos work activity is conducted consists of HEPA-filtered vacuuming and/or wet wiping all surfaces in the area.

7.2.3 Wet Wiping

The procedures to be used for wet wiping are as follows:

a. Immerse disposable towel in bucket containing amended water (see Definitions, pg. vii).

b. Wring out the towel and fold into quarters.

c. Wipe the surface and refold the towel to expose a clean face. Do not place the towel back in the amended water or it will become contaminated and will need to be replaced.

d. Repeat step c until all faces of the towel have been used. Obtain a clean towel if more wiping is needed.

e. Dispose of used towels in ACM disposal bags.

f. Dispose of contaminated water appropriately.

7.2.4 Glove Bag

Glove bags are intended for one-time use, generally for removing ACM from piping, and are commercially available in many different sizes and shapes for use in horizontal, vertical, or other special applications. Standard glove bags will melt on surfaces above 49° Celsius. Special glove bags are available for use on high-temperature piping or similar surfaces. Other types of prefabricated removal enclosures include “glove box” type enclosures, multiple glove bag assemblies, glove bags with self-supporting frames, and glove bags that funnel waste into standard disposal bags.

The following procedures should be followed during glove bag use:

a. Check the area where the work will be performed. If damaged ACM is present (broken, lagging, hanging, etc.), wrap in polyethylene and seal with duct tape. Place one layer of duct tape around the removal area where the glove bag will be attached. Also, protect any damaged ACM outside the glove bag area that could be disturbed during the work.

b. Slit open the top of the glove bag if necessary and cut down the sides to accommodate the removal area.

c. Place necessary tools into the pouch inside the glove bag. Tools typically needed include: scraper, utility knife, disposable towels, nylon brush, wire cutters, tin snips, and pre-wetted lag cloth. Cut the lag cloth to sizes needed to cover any ACM that will remain after glove bag work is completed.

d. Place one strip of duct tape along the edge of the open top slit of the glove bag for reinforcement. Place the glove bag around the area to be worked on and staple the top together through the reinforcing tape. Provide 8 to 12 inches of space inside the glove bag between the removal surface and the glove bag for working room. Secure the glove bag to the previously installed duct tape around the removal area. Use a smoke seal and aspirator bulb to test the seal.

e. If a negative pressure glove bag with a supporting framework and HEPA-filtered makeup air port are being used, attach the hose from an operating HEPA-filtered vacuum to the glove bag to provide negative pressure in the glove bag.

f. Insert the spray tip and extension (e.g., the wand of a garden sprayer) from the container holding amended water through the water sleeve. Duct tape the water sleeve tightly around the extension to prevent leakage. Insert arms into the glove bag.

g. Remove any metal jacket or covering over the area where removal is required using tin snips and/or wire cutters. Fold in any sharp edges to avoid cutting the bag. Pierce any painted coverings to permit water to soak into the ACM. Adequately wet the material to be worked on with amended water and allow to soak in. Wet adequately to penetrate and soak material through to the substrate.

h. Cut the insulation section to be removed with a utility knife. Use caution to avoid cutting the glove bag. Throughout this process, spray amended water or removal encapsulant on the cutting area to keep dust to a minimum.

i. Remove insulation using a scraper or other necessary tools. Place pieces in the bottom of the bag without dropping. Rinse all tools with amended water inside the bag and place them back into the pouch or a sleeve of the glove bag turned inside out.

j. Using a nylon brush, disposable towels, and amended water, scrub and wipe down the removal area.

k. Seal exposed ACM around the removal area using a pre-wetted lag cloth (non-asbestos woven material usually composed of cotton gauze or canvas) or a bridging encapsulant (an elastomeric product normally spray-applied as a sealant over the surface of asbestos-containing material to prevent the release of asbestos fibers). Use suitable, high-temperature encapsulants for hot piping.

l. Wash down the inside of the glove bag with amended water and wipe as necessary to move all debris and residue to a lower part of the glove bag (below where the bag will be twisted and cut off).

m. Remove the spray tip and extension (e.g., the wand of the garden sprayer) from the water sleeve, twist the water sleeve closed, and seal with duct tape. From outside the bag, pull the tool pouch or sleeve away from the bag and twist the pouch to seal it from the rest of the bag. Place duct tape over the twisted portion and then cut the tool pouch from the glove bag, cutting through the twisted/taped section.

n. Contaminated tools (still contained in the tool pouch enclosure) might then be placed directly into another glove bag without cleaning. Alternatively, the tool pouch with the tools can be placed in a bucket of water, opened underwater, and cleaned.

o. Evacuate air from the glove bag using a HEPA-filtered vacuum. While operating the vacuum, twist the bag several times and tape it to keep the removed insulation in the bottom of the bag during its removal from the area.

p. Place a 6-mil disposal bag over the glove bag (still attached to the removal area). With the hose of an operating HEPA-filtered vacuum inserted in the upper part of the glove bag, remove tape or cut the bag, open the top, and fold it down into the disposal bag. Seal the disposal bag.

Glove bags on self-supporting frames can be used for asbestos work activities on surfacing materials and may be adaptable for other types of ACM. The general procedures for using these units are as follows:

a. Construct a rectangular or square frame from small-diameter polyvinyl chloride (PVC) or ABS pipe. Supporting legs can be made of lengths of pipe and fittings as needed to achieve the required height. Proprietary frames with telescoping legs are available.

b. To install the glove bag on the frame, fold the top edge of the bag over the frame sides and extend the open edge of the bag at least 10 inches beyond the frame. Secure the

open edges to the rest of the bag using the duct tape. Place tools and supplies needed in the tool pouch inside the glove bag.

c. Place the frame and glove bag assembly below the work location so that the frame is close to, but not touching, the ACM. Location and proximity of the frame to the ACM should allow for some movement without disturbing ACM during the asbestos work activities. Insert the spray tip and extension (e.g., the wand of a garden sprayer) from the container holding amended water into the bag and seal in place.

d. Cut a hole in the glove bag for the negative pressure equipment hose. Negative pressure equipment could be a HEPA-filtered vacuum or a small, negative pressure machine. Install the hose and seal in place. A pre-filter may be needed to prevent any gross ACM debris from being drawn into the negative pressure device.

e. Install a hose from an operating HEPA-filtered vacuum into the bag in a position where it can be used during the work.

f. Turn on the negative pressure device and smoke test all sides of the glove bag frame to verify negative pressure. If sufficient negative pressure is not present, reduce the clearance between the ACM and frame, or add additional negative pressure device(s).

g. Insert hands into the glove arms and wet the ACM where the work is required. Perform the work as required. Adequately wet any ACM in the glove bag.

h. Slowly lower the frame to allow the tools to be removed from the bag. Gently remove the glove bag from the frame and twist to form a neck. Evacuate air from the bag using a HEPA-filtered vacuum and tape the bag closed.

i. Wash down the inside of the glove bag with amended water and wipe as necessary to move all debris and residue to a lower part of the glove bag.

j. Remove the spray tip and extension, negative pressure device hose, and HEPA-filtered vacuum hose and seal the holes with duct tape. Place the glove bag into a labeled asbestos disposal bag and seal the disposal bag.

7.2.5 Mini-enclosures

A mini-enclosure is usually a polyethylene enclosure around a work area. Mini-enclosures are sealed enclosures used as a secondary means to help contain fibers or debris generated during the work. (Mini-enclosures are defined in TRGS 519, 14.2)

Mini-enclosures also serve to provide a visual barrier between the workers and any other personnel around the work area. As noted above, careful work practices should be the primary means of fiber control during the work in order to prevent gross contamination of the mini-enclosure.

There are a variety of commercially available types of mini-enclosures, including prefabricated pop-up boxes and adjustable framework assemblies that permit construction of different sizes of enclosures. Disposable liners for mini-enclosures are also available from some manufacturers.

It is recommended that two workers set up and operate mini-enclosures. To construct an enclosure, erect a framework of wood, PVC piping, or metal framing that will enclose the work area and that is large enough for at least one person to work inside. The width and depth of the enclosure should be at least 3 feet. The height of the enclosure will depends upon the work to be performed and the height of the work area.

If an entire room will be enclosed to perform the work, the framework usually is not necessary, unless wall surfaces will be damaged by tape used to support the polyethylene. A room typically can be enclosed by installing one layer of polyethylene on the walls and two layers on floors, windows, and doors.

If the work to be performed is in an elevated location, the enclosure (and change room, if used) should be erected on a scaffold platform large enough to support the enclosure, change room, and a step-off area outside the enclosure. Cover the floor and the framework for the enclosure and change room with one layer of polyethylene attached using duct tape. Cover the floor with a second layer of polyethylene and attach to facilitate cleanup and to reduce the probability of tearing and subsequent contamination when equipment is used.

Construct curtain doorways between the change room and the enclosure and between the change room and the area outside. A curtain doorway is made of three overlapping sheets of polyethylene. These three sheets should be attached to the framework at the top and along one side, alternating sides with each separate sheet. A sheet of polyethylene approximately 5 feet by 5 feet or larger should be placed outside the change room for use as a step-off area and as a place to put decontaminated materials removed from the work area.

Enclosures should be constructed with a ceiling of polyethylene if work will not be performed above the enclosure. If work is to be performed above the enclosure and the ceiling is not ACM, the enclosure should be sealed to the ceiling or grid system. If the enclosure is below an ACM finished surface, use one of the following methods:

- If the ACM cannot be contacted, the enclosure should be separated from the ceiling by a narrow space.

- If ACM will withstand contact without damage and is in good condition, foam tape (1 inch or thicker) can be placed on the top edge of the enclosure. Gently lift the enclosure into place until sufficient contact is made to provide a seal to the surface.

- After the enclosure is in place, check for and clean up any debris generated by enclosure installation. Enclosures should be set up with a negative pressure system as described below to reduce the possibility of fiber release from the enclosure.

7.3 SELECTION AND USE OF RESPIRATORY PROTECTIVE EQUIPMENT

The appropriate type of respirator must be provided for each class of asbestos abatement at no cost to the workers who may be exposed to airborne asbestos. The following table, derived from 29 CFR 1926.1101, describes appropriate respirator types for various levels of airborne asbestos:

Table 7-1. Respirator Selection

AIRBORNE CONCENTRATION OF ASBESTOS	RESPIRATOR
< or = 1.0 f/cc	Half-face air purifying respirator (APR) with high efficiency filters
< or = 5.0 f/cc	Full-face APR with high efficiency filters
< or = 10 f/cc	Full-face APR with high efficiency filters or supplied air respirator operated in continuous flow mode
< or = 100 f/cc	Full-face supplied air respirator operated in pressure demand mode
> 100 f/cc or unknown concentration	Full-face supplied air respirator operated in pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus (SCBA)

AIRBORNE CONCENTRATION OF ASBESTOS	RESPIRATOR
Note: A high efficiency filter must be at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.	

7.4 PROTECTIVE CLOTHING AND EQUIPMENT

Personal protective clothing and equipment should be selected based upon consultation with the BSB Safety Office and upon the requirements of applicable regulations. The following list describes the PPE typically required for asbestos removal projects:

- hard hat (required if there is a significant overhead hazard);
- safety glasses or goggles (must be available for activities that may result in eye irritation or injury);
- disposable protective coveralls (e.g., Tyvek™ suits);
- respirators and respirator cartridges;
- disposable gloves; and
- safety shoes or boots (e.g., steel/composite toe and shank).

7.5 AIR MONITORING

Collection and analysis of air samples for asbestos fibers is a reliable means of determining the presence or absence of asbestos fibers and evaluating whether the concentration of airborne asbestos fiber poses a significant occupational risk. Air monitoring is conducted during asbestos abatement projects to determine whether airborne fiber concentrations exceed occupational health and environmental limits, and air sampling techniques are employed at the conclusion of asbestos abatement projects to determine whether the space is sufficiently clean to permit re-occupancy.

Selection of the air sampling method depends on the intended use or purpose of the sample analysis results and the applicable regulatory requirements. Typically, two air sampling methods are simultaneously employed:

- personal sampling uses battery-operated pumps to collect small volumes of air that will be analyzed to evaluate respiratory protection methods;

- area sampling uses electric-powered pumps to collect larger volumes of air required for routine monitoring and final clearance.

7.6 AUTOMOTIVE BRAKE AND CLUTCH SERVICING

Asbestos-containing products are classified as hazardous materials. The Army, as an employer, must assess the hazards associated with the handling of ACMs to determine the protective measures that must be implemented. This assessment must be undertaken and the associated protective measures implemented before initiating activity involving ACMs. Every effort should be made to minimize the number of people who may be exposed to asbestos or asbestos-containing dust.

Chapter 15 of the FGS for Germany prohibits the purchase and sale of materials containing fibrous structures, preparations containing more than 0.1 percent asbestos, and products containing such materials or preparations. An exception to this prohibition is chrysotile-containing replacement parts, but only when asbestos-free substitutes are not available. Asbestos-containing brake or clutch linings may not be installed in the brakes and clutches of motor vehicles if it is technically possible to use asbestos-free linings, and if such linings are available.

Mobile dust filters and industrial vacuum cleaners used in the repair, maintenance, and cleaning of brake and clutch linings and brake drums must satisfy the following requirements:

(1) The pass-through rate of the filter material or combination of filters may not exceed 0.005 percent.

(2) The equipment must be approved by the Trades Association (*Berufsgenossenschaft*) via type-certification, or by competent authorities.

When worn friction surfaces are dismantled, the friction dust must be vacuumed using a Category K1, type-certified device or its equivalent. The use of compressed air to blow away particles is specifically prohibited by the FGS for Germany. Dust binding or wet cleaning may be used if the cleaning agent does not negatively affect the braking performance. To the extent possible, worn surfaces should be removed from their holders as an entire piece. The removed coatings, friction surface remnants, and the vacuumed dust must be packed in a dust-free container and disposed in a manner that does not create emissions. Liquids must be collected in catch basins, wiped off, and disposed as asbestos waste.

Grinding of asbestos-containing brake surfaces is prohibited. For the maintenance of clutch linings, the same general procedures used for brake systems apply.

8.0 TRAINING

This chapter addresses the training requirements for all Army, civilian, and LN personnel who will participate in asbestos-related activities at the BSB. In order for the AMT to prepare and implement the AMP, the team members who will be actively involved in the technical aspects of the AMP must be appropriately trained.

8.1 TRAINING REQUIREMENTS

AHERA established a Model Accreditation Program (MAP) that described the minimum training standards for individuals managing asbestos in schools. With the passage of the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) in 1990, the certain portions of AHERA were extended to include public and commercial buildings. For example, ASHARA extended the training requirements of AHERA

8.1.1 O&M Program Training for Custodial and Maintenance Staff

A worker training program should be instituted for all employees who are or may be exposed to fiber levels above the OSHA PEL of 0.1 f/cc on an eight-hour TWA basis or the excursion limit of 1.0 f/cc for a 30-minute period.

AHERA requires that all custodial staff and maintenance workers receive 16 hours of training.

The training must address the steps to be taken to avoid the release of asbestos fibers from ACM. Three levels of training are recognized for O&M programs:

Level I: Awareness Training

This training is designed for custodians and maintenance workers whose normal duties would not bring them into contact with ACM; they may, however, disturb ACM accidentally. Awareness training can range from two to eight hours in length and addresses the following topics: background information on asbestos; health effects, worker protection, location of ACM in the building; recognition of ACM damage and deterioration; the building O&M program; and proper response to fiber release episodes.

Level II: O&M Training

This training is designed for workers involved in general maintenance and asbestos material repair. At least 16 hours of instruction is required. The O&M training should cover Level I topics in more detail as well as: asbestos regulations; proper asbestos work practices;

methods of handling ACM, including waste handling and disposal; respirator use, care, and fit testing; protective clothing, use, and handling; and hands-on exercises in techniques such as glove bag removal, HEPA-filtered vacuum use, maintenance; and appropriate decontamination practices.

Level III: Abatement Worker Training

This training is designed for asbestos abatement workers who will come into direct, intentional contact with ACM to remove, encapsulate, or enclose it. Level III requires 24 to 32 hours of instruction and should be provided to in-house personnel assigned to asbestos abatement projects. Level I and II topics should be addressed in Level III instruction; however, more emphasis should be devoted to the following topics:

a. pre-abatement work activities;
b. work area preparation;
c. establishing decontamination units;
d. personal protection, including respirator and protective clothing;
e. worker decontamination procedures;
f. safety considerations in the abatement work area;
g. practical, hands-on exercises; and
h. proper handling and disposal of ACM wastes.

Each worker should receive a certificate of training for each level of training completed. Copies of the training certificates will be required for the records of an asbestos abatement project.

8.1.2 Asbestos Building Inspector/Management Planner

Individuals conducting building inspections must complete a three-day course to obtain certification. Certified inspectors are permitted to conduct ACM inspections and surveys, collect bulk samples, and perform assessments of ACM. The leader of each field asbestos survey team must be a certified inspector; however, other individuals on the same team need not be certified.

Individuals responsible for interpreting inspection data and determining response actions must complete the two-day Management Planner course. Inspectors and management planners must complete an annual refresher course to maintain their certifications. Each refresher course is four hours, and usually the management planner refresher course immediately follows the inspector refresher course.

8.1.3 Asbestos Worker

Asbestos abatement workers must receive four days of training, including basic asbestos abatement procedures, regulations, health effects of exposure, and worker safety. Workers must receive eight hours of refresher training annually.

8.1.4 Asbestos Contractor/Supervisor

Asbestos abatement contractors and supervisors must receive five days of initial training, including basic asbestos abatement procedures, regulations, health effects of exposure, and worker safety. Contractors/supervisors must receive 8 hours of refresher training annually.

8.1.5 Project Designer

An individual seeking certification as a project designer must have, as a minimum, the supervisor training course. The project designer will develop drawings and specifications for abatement projects.

8.1.6 Project Monitor

An individual seeking certification as a project monitor must have, as a minimum, the supervisor training course. The project monitor will be capable of collecting personal and area air samples and inspecting the abatement work for compliance with regulations and project specifications.

8.2 TRGS 519 AND OTHER GERMAN LAW TRAINING / INSTRUCTION

The FGS for Germany require that an instruction sheet (Betriebsanweisung), specific to a particular workplace and the associated ACM contained therein, be provided to workers. The instruction sheet is to be written in a comprehensible manner, in the language of the employees, and posted at a suitable location at the workplace. The instruction sheet must draw attention to the dangers to human health and the environment associated with the handling of ACM. At a minimum, the instruction sheet shall address personal protective measures and procedures, the proper disposal of generated hazardous wastes, emergency procedures, and first aid measures. (See Appendix AMP-8)

The FGS for Germany also require that an informative session (i.e., awareness training, Unterweisung) be provided to workers handling ACM in the workplace prior to initiating work activities and at least once a year thereafter (for long duration work activities). The awareness training may be given verbally and must include specific reference to the workplace (i.e., the particular locations and types of ACM present). The contents of the awareness training and the time the training was conducted must be recorded in writing and confirmed by the instructed

persons by means of their signature. The proof of training/instruction must be kept for a period of at least two years.

Both the instruction sheet (Betriebsanweisung) and the verbal awareness training (Unterweisung) must be organized according to, and address, the following topics:

- work areas and workplace activities;
- dangers to man and the environment;
- protective measures, procedures, and hygiene measures;
- emergency procedures;
- first aid measures; and
- proper disposal procedures.

8.3 TRAINING DOCUMENTATION AND RECORDKEEPING

Generating and maintaining complete records of asbestos management activities is essential to keeping the program in compliance with applicable regulations. Complete and accurate records also serve as a valuable management tool for the day-to-day operation of the program. For example, records of past and current operations can be used to help identify and correct compliance deficiencies or to develop improved procedures or processes for future operations. In addition, a detailed record of construction activities will be invaluable in settling contract disputes and health-related litigation.

Records of the following types of activities related to the asbestos management program should be created and maintained at the BSB:

- Records of actions taken by the AMT to abate ACM;
- Training certificates for in-house and contractor personnel involved in any abatement project;
- ACM inventories and locations compiled from the survey of each building;
- Records of surveillance and re-inspection;
- Training activities;
- Personnel responsibilities;
- Asbestos waste storage, transportation, and disposal;
- Changes to operating procedures; and

- Routine or non-routine maintenance activities (e.g., removal/repair of a section of pipe).

A complete set of records should be kept by the APM. Other individuals or offices may be designated to keep a full or partial set of the program records, as deemed appropriate. All records should be maintained for at least three years after the event that generated the record.

Facilities that manage asbestos-related HW, including HW accumulation points and storage areas, have additional recordkeeping requirements, which are specified in Chapter 6, Hazardous Waste, of the FGS for Germany (e.g., Hazardous Waste Accumulation Point and Hazardous Waste Storage Area Recordkeeping Requirements).

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9.0 ASBESTOS WASTE DISPOSAL

The asbestos abatement cleanup and clearance processes will directly follow ACM removal.

Removal of ACM from the work area or work site must be a continuous process, and bags of debris must not be allowed to accumulate at the decontamination area. Bags may be decontaminated and passed through the decontamination unit or through a materials handling unit used exclusively for bags and equipment. As each bag is decontaminated, it must be double-bagged and sealed separately.

9.1 PACKAGING AND LABELING WASTE

Asbestos-containing waste should be packaged in rigid, leak-tight packaging, such as metal, plastic, or fiber drums; in bags; or in other non-rigid packaging that is dust-proof. Storage of asbestos and asbestos-containing waste requires marking and labeling in accordance with the FGS for Germany.

Each package and container of asbestos waste offered for transportation should be marked with the following information: WASTE ASBESTOS; UN2590 (for white asbestos, including chrysotile, actinolite, anthophyllite, and tremolite); UN2212 (for blue asbestos, including crocidolite, and brown asbestos, including amosite); and the name and address of both the generator and the disposal facility.

Packages and containers will be labeled with the following statement in the English and German languages:

"DANGER - CONTAINS ASBESTOS FIBERS - AVOID CREATING DUST - CANCER AND LUNG DISEASE HAZARD.

ACHTUNG ENTHÄLT ASBEST - GESUNDHEITSGEFÄHRDUNG BEI EINATMEN VON ASBESTFASERN - SICHERHEITSVORSCHRIFTEN BEACHTEN - BEHÄLTER GESCHLOSSEN HALTEN."

The co-mingling or combining of asbestos-containing wastes with non-asbestos-containing wastes prior to landfilling is prohibited by the FGS for Germany. One exception to this requirement is the co-mingling of asbestos cement pipes with non-asbestos-containing waste as this is at times unavoidable. If asbestos cement pipes are to be co-mingled with non-asbestos containing wastes, it must be done in a manner that ensures that no asbestos fibers are released.

Asbestos-containing wastes are to be collected at the workplace in such a manner that the transfer of waste between containers and/or enclosures is minimized to the maximum extent practical so as to minimize the potential for asbestos fibers to be released. When collecting and preparing asbestos-containing waste for transportation, the release of dusts is to be prevented by means according to the current state of the art of technology (e.g. exhaust ventilation, consolidation, moistening, covering).

Asbestos-containing wastes in storage must be kept moist or covered using suitable materials, or kept in sealed, leak proof containers and secured to prevent the access of unauthorized persons.

Asbestos-containing wastes must be secured for transportation in such a manner that no asbestos fibers are released during transportation and loading/unloading.

9.2 REGULATED ASBESTOS LANDFILLS

The FGS for Germany require that all hazardous wastes, including asbestos waste, be disposed in a permitted German disposal facility. The disposal of asbestos, ACM, asbestos waste, and asbestos-contaminated liquids at appropriately licensed landfills and treatment facilities will be conducted in consultation with the responsible local waste authorities. The materials will be handled, packaged, and covered in such a way as to ensure that no asbestos fibers can be released into the environment. Prior to transporting sprayed-on asbestos and other friable asbestos waste off-site, a hydraulic binder material (e.g., cement) will be utilized at the point of generation. ACM waste containing only non-friable asbestos fibers will be kept moist during packaging and transport to avoid the creation of asbestos-containing dust.

Table 9-1. Landfills

N. A.		

9.3 ASBESTOS WASTE MANIFESTS

Shipping papers must accompany each shipment of asbestos-containing waste and must include a description of the waste material, UN Number (2590), proper shipping name. An asbestos waste manifest may serve as a shipping paper, and the manifest must include: the name of the waste generator, the location at which the waste was generated, the name of the shipper or hauler, an emergency response telephone number, and the description and quantity of asbestos waste contained in the shipment.

The disposal site operator must receive a copy of the manifest or shipping paper upon delivery of the waste to the disposal facility. Manifest distribution must be in accordance with German waste disposal requirements.

The following will be used:

Generator Number (Abfallerzeugernummer):

- Kitzingen: I 675 E 1710
- Wuerzburg: I 663 E 6010
- Giebelstadt:: I 679 E 1990

Waste Code (Abfallschluesselnummer):

- 170105 Baustoffe auf Asbestbasis (construction material on basis of asbestos, with a weight above 1000 kg/m3 and asbestos concentration of 10 - 15 %, e.g. transite)

- 160206 Baustoffe auf Asbestbasis (construction material on basis of asbestos, e.g. asbestos contaminated normal household trash)

- 170601 Daemmaterial, das Asbest enthaelt (Insulation material, containing asbestos, with a weight of less than 1000 kg/m3 and a concentration of above 60% asbestos)

- 170605 Asbesthaltige Baustoffe (asbestos containing building material)

- 160111 Asbesthaltige Bremsbelaege (asbestos containing brake shoes)

- 160212 gebrauchte Geraete, die freies Asbest enthalten (used equipment with friable asbestos)

Wuerzburg and Kitzingen: Asbestos containing waste must be classified as hazardous waste and will be disposed using the DRMO / DRMS-I contracts IAW the 417th BSB Hazardous Waste Management Plan. Waste may be brought to the central hazardous waste collection site (Harvey Barracks), or picked up by the DRMO contractor from the place of generation. (POC: DPW EMO 355-4582)

Giebelstadt: The German Bundeswehr Standortverwaltung (STOV) provides hazardous waste services for Giebelstadt. Waste may be brought to the central hazardous waste collection site (Giebelstadt A.A.), or picked up by STOV from the place of generation. (POCs: STOV Gieb. 352-7751 or FE Gieb. 352-7406).

Special Projects: Asbestos containing building materials will normally be disposed as part of an abatement, renovation, demolition or other construction project. Waste will be collected and picked up from the place of generation.

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10.0 BSB FACILITIES SUBJECT TO AHERA

According to the USAREUR Environmental Compliance Assessment Manual, the AHERA regulations apply to U.S. Department of Defense Dependent Schools (DoDDS) and Child Development Centers (CDCs) on military bases in foreign countries.

In accordance with the AHERA regulations, each school and CDC facility must designate someone to ensure that the requirements are properly implemented. The designated person will initiate and oversee activities including: inspection to identify ACM, monitoring and periodic re-inspection, development and update of management and O&M plans, determination and implementation of response actions, notification of parents, building occupants, and contractors, and training/accreditation of personnel.

Facilities that fall under AHERA and that have ACM in their buildings are listed at Appendix E. All other facilities (Schools and CDCs) do not have ACM due to their construction date.

11.0 REFERENCES

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National Institute of Building Sciences, September 1992, *Guidance Manual: Asbestos Operations & Maintenance Work Practices.*

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U.S. Army Center for Public Works, March 1998, *Public Works Technical Bulletin (PWTB) 420-70-8, Installation Asbestos Management Program*, Alexandria, Virginia.

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U.S. Army (Headquarters), April 1990, *Army Regulation 11-34, The Army Respiratory Protection Program*, Washington, D.C.

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U.S. Army, February 1982, TB MED 502, *Occupational and Environmental Health, Respiratory Protection Program*, Washington, D.C.

U.S. Army, 15 December 1986, TB MED 513*, Occupational and Environmental Health Guidelines for the Evaluation and Control of Asbestos Exposure*, Washington, D.C.

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U.S. Department of Defense, *Final Governing Standards for Germany*, Chapters 5, 6, and 15.

U.S. Department of Defense Overseas Environmental Task Force, October 1992, *Overseas Environmental Baseline Guidance Document.*

USEPA, August 1994, *Notice of Advisory, Advisory Regarding Availability of an Improved Asbestos Bulk Sample Analysis Test Method.*

USEPA, 40 CFR 61, November 1990, *National Emission Standards for Hazardous Air Pollutants (NESHAP), Final Rule.*

USEPA, 40 CFR 763, 1982, *Asbestos-Containing Materials in Schools, Identification and Notification Rule.*

USEPA, 40 CFR 763, 1987, regulations implementing the *Asbestos Hazard Emergency Response Act, PL 99-579.*

USEPA, 40 CFR 763, 1994, *Asbestos Model Accreditation Plan.*

German Regulations:

Ausschusse fur Gefarhrstoffe (Committee on Hazardous Substances), September 1991, *Technische Regeln fur Gefahrstoffe* (TRGS) 519, Technical Rules for Hazardous Substances.

German Regulation ZH 1/220 Hazardous Substances.

German Regulation ZH 1/525 Workplace Guidelines.

APPENDIX A

TABLE A-1 MEMBERS OF THE 417TH BSB (KITZINGEN) ASBESTOS MANAGEMENT TEAM

TABLE A-2. LOCATIONS OF FILES

TABLE A-1 MEMBERS OF THE 417TH BSB (KITZINGEN) ASBESTOS MANAGEMENT TEAM

The 417th BSB (Kitzingen) Asbestos Management Team consists of active core members and may be extended as required.

TEAM MEMBERS / ALTERNATES	OFFICE & LOCATION	PHONE
Active Members:		
Ludger Henning / Gerda Koss	**DPW, Environmental Management Office, Faulenberg Kaserne, Bldg. #221**	**Civ: 0931-296-4582 DSN: 351-4582**
vacant	**DPW, ERM Division, Faulenberg Kaserne, Bldg. #221**	**Civ: 0931-296-4398 DSN: 351-4398**
Ehrenfried Dengler / Doris Seynstall, Werner Albrecht	**417th BSB Safety Office, Harvey Barracks, Bldg. #109**	**Civ: 09321-305-1670 DSN: 355-1670**
Maureen Pikal / Ineke Utz / Robert Clifford	**98th ASG Safety Office and ASG OHP, Industrial Hygiene, Faulenberg Kaserne, Bldg. #221**	**Civ.: 0931-296-4813 DSN: 351-4813**
Ann Lewis	**98th ASB OHP, Occupational Health Nurse, Faulenberg Kaserne, Bldg. #221**	**Civ: 0931-296-4812 DSN: 351-4812**
Associated Competent Persons (IAW TRGS 519)		
Wolfgang Hupp / Peter Pandura	DPW, Utilities Division, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4598 DSN: 351-4598
Rory O'Donnell, Franz Oestemer	DPW, FE Kitzingen, B&G and Utilities, Harvey Barracks, Bldg. #144	Civ: 09321-305-8881 DSN: 355-8881
Oswald Jesberger / Albert Koch	DPW, Buildings and Grounds Division, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4584 DSN: 351-4584
Michael Mueller / Michael Gorg	DPW, EP&S Division, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4355 DSN: 351-4355

TEAM MEMBERS / ALTERNATES	OFFICE & LOCATION	PHONE
Other Key Organizations and AMT Members as required by pertinent regulations:		
Works Council 98 ASG / 417th BSB	Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4405 DSN: 351-4405
Civilian Personnell Office / CPAC	Harvey Barracks, Bldg. #109	Civ: 09321-305-8281 DSN: 355-8281
Staff Judge Advocate, 1 ID	Leighton Barracks, Bldg. #47	Civ: 0931-889-7174 DSN: 350-7174
417th BSB Public Affairs Office	Harvey Barracks, Bldg. #109	Civ: 09321-305-1600 DSN: 355-1600

TABLE A-2. LOCATIONS OF FILES

TYPE OF FILES	OFFICE & LOCATION	TELPHONE
PLANS, SURVEYS, INSPECTIONS, BUILDING INFORMATION, PROJECT FILES	DPW, Environmental Management Office, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4582 DSN: 351-4582
PROJECT FILES	DPW, EP&S Division, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4355 DSN: 351-4355
MEDICAL SURVEILLANCE FILES, TRAINING AND INSTRUCTION FILES	Admin Offices of Shops, Maintenance Facilities etc.	
MEDICAL SURVEILLANCE FILES	98th ASB OHP, Occupational Health Nurse, Faulenberg Kaserne, Bldg. #221	Civ: 0931-296-4812 DSN: 351-4812
DoDDS SURVEYS, PLANS ETC.	Admin Offices of Schools	

APPENDIX B

SAMPLE FORMS:

" Urgency of Abatement Form"

" Work Permit Form"

"Asbestos Notification Forms"

"Asbestos Warning Labels"

Assessment Sheet No. ☐

Asbestos Products - Assessment of the Urgency of Abatement

"Guidelines for the Assessment and Abatement of Weakly Bound Asbestos Products in Buildings"; Appendix 1

Line	Grp.	Building: Date: Room: Sample ID: Product:	Assess-ment *	Assess-ment Number
	I	**Type of Asbestos Application**		
1		Sprayed-on asbestos		20
2		Asbestos containing plaster		10
3		Lightweight asbestos containing panels (e.g. wallboards, roof insulation tiles)		5-15
4		Other friable asbestos containing products		5-20
	II	**Type of Asbestos**		
5		Amphibole asbestos		2
6		Chrysotile asbestos		0
	III	**Surface Structure of the Asbestos Product**		
7		Loose fiber structure		10
8		Firm fiber structure without or with insufficient surface coating		4
9		Coated impermeable surface structure		0
	IV	**Surface Condition of the Asbestos Product**		
10		Severe damages		6
11		Minor damages		3
12		No damages		0
	V	**External Impacts on the Asbestos Product**		
13		Product is exposed to impacts via direct access (floor level to arms reach)		10
14		Product is occasionally worked on		10
15		Product is exposed to physical impacts		10
16		Product is exposed to vibrations		10
17		Product is exposed to significant climatic changes		10
18		Product is directly exposed to strong air currents		10
19		Strong air currents are present in the room where the asbestos product is located		7
20		Product may be subject to abrasion, due to handling malpractices		3
21		Product is not subject to external impact		0
	VI	**Room Use**		
22		Room is used regularly by children, adolescents or athletes		25
23		Room is used constantly or frequently by other persons		20
24		Occasionally used room		15
25		Rarely used room		8
	VII	**Location of the Product**		
26		Directly in the room		25
27		In the ventilation system (lining or wrapping of untight ducts) for the room		25
28		Behind a non-airtight suspended ceiling or paneling		25
29		Behind an airtight suspended ceiling or paneling, behind airtight underpinnings or coatings, or outside of airtight ventilation ducts		0
30		**Sum of the Assessment Points ***		
		Abatement:		
31		Required immediately (Urgency Level I)		> 79
32		Required in medium terms (Urgency Level II; reassessment every 2 years)		70-79
33		Required in longer terms (Urgency Level III; reassessment every 5 years)		< 70

* If more than one assessment was chosen within one group, only one - the highest - assessment number is to be considered for the total score.

NA: Not applicable since material is nonfriable or outside of the building.

(USE TAB KEYS TO NAVIGATE)

WORK REQUEST (IFS-M)

SEND THIS WORK REQUEST TO:
FEWR@BSBDPW.KITZINGEN.ARMY.MIL

PART A	CUSTOMER ID CODE	DOCUMENT SERIAL NUMBER	FY	TYPE	SHORT JOB DESCRIPTION	DATE DA	MON	YR

BUILDING/FACILITY NUMBERS

1	2	3	4	5	6	7	8	9	1 0

INSTALLATION NAME | UNIT | POC NAME

POC EMAIL ADDRESS

(Description and justification of work request)

AUTHORIZED REQUESTOR: *(Type or Print)*

PART B
(Approving Official Only)

WORK REQUEST PRIORITY:

PROGRAM INDICATOR CODE:

REIMBURSABLE ☐ YES ☐ NO

SPECIAL INTEREST CODE:

ENVIRONMENTAL IMPACT

YES	NO	
☐	☐	ENVIRONMENTAL CONSIDERATION
☐	☐	EIS/EIA INITIATED
☐	☐	EIS/EIA COMPLETED

WORK TO BE PERFORMED

☐	IN-HOUSE	☐	ETS
☐	SELF HELP	☐	O&M
x	CONTRACT	☐	FES
☐	TROOP	☐	CUSTOMER

WORKCLASS	APPROVAL AMOUNTS *FUNDED*	*UNFUNDED*
	$	$
	$	$
	$	$
TOTAL	$	$

DESIGN APPROVAL	DATE D D M M M Y Y	APPROVAL AUTHORITY	APPROVAL ACTION	DATE D D M M M Y Y
(Please type or print name)		*(Please type or print name)*	☐ APPROVED	
(Signature)		*(Signature)*	☐ DISAPPROVED	

[Sample]

Asbestos Notification Form

The asbestos survey conducted on **[date]** identified potential asbestos hazards in Building **[building number]** on the **[BSB Number]** BSB, **[location]**. In this building, asbestos-containing materials were used **[to insulate the hot water pipes and the air plenum in the basement-level boiler room. Additionally, asbestos-containing vinyl floor tiles were identified in the kitchen/break room on the second floor].**

The presence of asbestos alone does not constitute a hazard. Asbestos-containing materials that are disturbed to the extent that asbestos fibers become airborne are health hazards due to the potential for inhalation or ingestion. Prolonged exposure to airborne asbestos fibers may result in lung cancer or other respiratory diseases specifically related to asbestos exposure.

To avoid exposure to asbestos fibers, building occupants, visitors, and contractors must do the following:

- minimize time spent in the basement-level boiler room;
- do not repair, remove, or disturb [**pipe or plenum insulation]**;
- do not disturb, break, sand, abrade, drill, or otherwise damage the **[vinyl floor tile in the second floor break room]**; and
- contact the BSB Asbestos Program Manager, **[name, department, location, phone number]**, before initiating any work in an area known to contain asbestos.

By signing this form, I, the undersigned, acknowledge that I have read, understand, and agree to abide by the information contained in this notification.

Name (Printed): _____

Signature: _____

Date: _____

INSTALLATION HAZARD ABATEMENT PLAN

For use of this form, see AR 385-10; the proponent agency is OTIG

1. PROJECT NO.	2. DATE PREPARED	3. DATE REVISED
4. ACTIVITY/ORGANIZATION	5. HAZARD LOCATION(S)	6. RISK ASSESSMENT CATEGORY

7. CITATION OF SPECIFIC OSHA AND OTHER STANDARD VIOLATED

8. DESCRIPTION OF PROPOSED CORRECTIVE ACTION OR REMEDIAL MEASURES

9a. ESTIMATED COST OF CORRECTIVE ACTION $	9b. APPROPRIATION
9c. PROGRAM ELEMENT NUMBER	9d. BUDGET COST ESTIMATED (BCE: Yes ☐ No ☐)

10. ESTIMATED ADDITIONAL OPERATING AND MAINTENANCE COSTS, IF ANY
$

11. DESCRIPTION OF INTERIM HAZARD CONTROL MEASURES IN EFFECT

12. OTHER RELEVANT INFORMATION

13. ESTIMATED ABATEMENT COMPLETION DATE

PREPARED BY	APPROVED BY

NOTICE NO. _____ OF

UNSAFE OR UNHEALTHFUL WORKING CONDITION

(DO NOT REMOVE NOTICE UNTIL CONDITION IS ABATED)

For use of this form, see AR 385-10; the proponent agency is Office of The Inspector General.

1. UNIT INSTALLATION	3. DATE OF INSPECTION
2. OFFICIAL IN CHARGE OF WORKPLACE	4. STANDARD VIOLATED
5. LOCATION OF VIOLATION	
6. DESCRIPTION OF UNSAFE OR UNHEALTHFUL CONDITION	

7. RECOMMENDED ABATEMENT PROCEDURES

a. Interim

_____

b. Final: Abatement should be completed by

8. ADDITIONAL INFORMATION CONCERNING THIS VIOLATION CAN BE OBTAINED FROM

_____ TELEPHONE NO. _____

DO NOT ENTER !
HEALTH HAZARD !

ZUTRITT VERBOTEN !
GESUNDHEITSGEFAHR !

Asbestos Warning Label

ACHTUNG
ENTHÄLT ASBEST

Gesundheitsgefährdung bei Einatmen von Asbestfeinstaub

Sicherheitsvorschriften beachten

WARNING CONTAINS ASBESTOS

Breathing asbestos dust is dangerous to health

Follow safety instructions

DANGER
ASBESTOS
CANCER AND LUNG DISEASE
HAZARD

AUTHORIZED PERSONNEL ONLY

RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA !

GEFAHR !
ASBEST !
GEFAHR VON KREBS UND LUNGENERKRANKUNG

ZUGANG NUR FÜR AUTORISIERTES PERSONAL

ATEMSCHUTZ UND SCHUTZKLEIDUNG SIND IN DIESEM BEREICH VORGESCHRIEBEN

417th BSB (Kitzingen), Safety Office, DSN: 355-1670

Off Limits:
Asbestos Dust!

Betreten verboten:
Asbeststaub!

DANGER

ASBESTOS CONTAINING MATERIAL
DO NOT DAMAGE OR CLEAN WITH ABRAISIVE MATERIALS
(STEEL WOOL, SOS PADS).
CLEAN ONLY WITH SPONGES AND SOAP.
MATERIAL IS NOT DANGEROUS IF IN GOOD CONDITION.
CALL BSB DPW IF DAMAGED

ACHTUNG

ASBESTHALTIGES MATERIAL
BITTE NICHT BESCHAEDIGEN ODER MIT MITTELN REINIGEN
DIE DIE OBERFLAECHE ANGREIFEN (STAHLWOLLE USW.)
NUR MIT WEICHEN SCHWAEMMEN UND SEIFE REINIGEN
KEINE GEFAHR WENN MATERIAL IN GUTEM ZUSTAND IST.
RUFEN SIE DAS BSB DPW WENN BESCHAEDIGT.

CAUTION WHILE WORKING ON THIS BUILDING COMPONENT!

CONTAINS ASBESTOS

HEALTH HAZARD BY INHALING ASBESTOS FIBERS

FOLLOW HEALTH AND SAFETY REGULATIONS!

VOSICHT BEI ARBEITEN AN DIESEM BAUTEIL!

ENTHAELT ASBEST

GESUNDHEITSGEFAEHRDUNG BEIM EINATMEN VON ASBESTFASERN

SICHERHEITSVORSCHRIFTEN BEACHTEN!

APPENDIX C

TRAINING DOCUMENTATION

Status of Asbestos Training Activities in 417th BSB, March 2000:

USAREUR US Asbestos Training Courses

Name	Organization	Type of Course
Laiacker, Ernst	Utilities Wue	AWR
Korzecek, Hans	Utilities Wue	AWR
Gaubitz, Dieter	FE KT	ACSR
Geck, Werner	FE KT	ACSR
Hirschberger, Peter	FE KT	ACSR
Knoechel, Wolfgang	FE KT	ACSR
Wurm, Ralph	FE KT	ACSR
Kloeber, Gerd	FE KT	AWR
Paetzel, Norbert	FE KT	AWR
Schlegelmilch, Uwe	FE KT	AWR
Albrecht, Werner	BSB Safety O.	AIMPR
Dengler, Friedel	BSB Safety O.	AIMPR
Seynstall, Doris	BSB Safety O.	AIMPR
Henning, Ludger	DPW Env. O.	AIMPR

AWR: ASBESTOS WORKER (REFRESHER), ACSR: ASBESTOS SUPERVISOR (REFRESHER), AIMPR: ASBESTOS INSPECTOR / MANAGEMENT PLANNER (REFRESHER

TRGS 519 Sachkundelehrgang

Mr. Dengler	417th BSB Safety Off.
Mr. O'Donnell	DPW FE Kit. B&G
Mr. Henning	DPW Env.Man.Off.
Mr. Hupp	DPW Utilities Div.
Mr. Oestemer	DPW, FE KT, Utilit.
Mr. Jesberger	DPW B&G
Mr. Koch	DPW B&G

Inhouse Training for "Asbestos Awareness" (30. 4. 1998)

Doellein, Elmar	Housing Div. Wuerzb.	30. 4. 1998
Schwab, W.	FE Kitzingen	"
Scheurer	"	"
Richard	"	"
Doerflein	"	"

(Cont.) Inhouse Training for "Asbestos Awareness" (30. 4. 1998)

Ehrlich	"	"
Sturm	"	"
Peter	"	"
Riedmiller	"	"
Unser, Bruno	"	"
O' Donnel, Rory	"	
Oestemer, Franz	"	
Jaeger, Wolfgang	Housing Div. Kitz.	"
Pfister, Matthias	"	"
Mueller, K.H.	"	
Jopp, Heinz	"	

APPENDIX D

INSPECTION INFORMATION

TABLE D-1 ASBESTOS INSPECTION / SURVEY INFORMATION 1990-2003

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Rar	F.H. Kitzingen	301	pipe insulation 4 inches	3			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	301	pipe insulation 4 inches	3			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	301	pipe insulation 4 inches	3			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	301	pipe insulation 8 inches	6			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	301	pipe insulation 8 inches	6			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	301	pipe insulation 8 inches	6			boiler room	Family Housing	yes	10-Dec-97	(QC) no Asbestos			UnD	dupl. of KFH-301-02-02
Basem	Rar	F.H. Kitzingen	301	pipe insulation 8 inches	6			boiler room	Family Housing	yes	10-Dec-97	No Asbestos			UnD	
1,2,3,4	Hsg	F.H. Kitzingen	302	Linoleum		326	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	302	Plaster		3857	55	All	Families	No	11/21/89	Assumed			UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 5 inches	11			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 5 inches	11			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	302	pipe insulation 5 inches	11			boiler room	Family Housing	yes	Nov-89	Assumed	10-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 8 inches	6			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 8 inches	6			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 8 inches	6			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 5 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 5 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	303	pipe insulation 5 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
All	Hsg	F.H. Kitzingen	304	Linoleum		326	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	304	Plaster		3857	55	All	Families	No	11/21/89	Assumed			UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	(QC) No Asbestos	UnD	dupl. of KFH-304-01-02
Basem	Rar	F.H. Kitzingen	304	pipe insulation 8 inches	6			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 5 inches	3			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 5 inches	3			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	304	pipe insulation 5 inches	3			boiler room	Family Housing	yes	Nov-89	Assumed	11-Dec-97	No Asbestos	UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Rar	F.H. Kitzingen	305	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	305	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	305	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	305	pipe insulation 6 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	305	pipe insulation 6 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Rar	F.H. Kitzingen	305	pipe insulation 6 inches	3			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	
Basem	Hsg	F.H. Kitzingen	306	Pipe Insulation	247			Bs,Attic	Families	Yes	11/21/89	No Asbestos			damaged	abated
All	Hsg	F.H. Kitzingen	306	Linoleum		326	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	306	Plaster		3857	55	All	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	306	Pipe Joint Seal				Laundry Rm.		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	306	Pipe Joint Seal				Laundry Rm.		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	306	Pipe Joint Seal				Laundry Rm.		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	306	pipe insulation	30			boiler room	Family Housing	yes	Nov-89	5% amosite	11-Dec-97	visual inspection	heavy	Abated
Basem	Rar	F.H. Kitzingen	306	pipe insulation	30			boiler room	Family Housing	yes	Nov-89	5% amosite	11-Dec-97	visual inspection	heavy	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	(QC) no Asbestos			UnD	dupl. of KFH-307-01-02
Basem	Rar	F.H. Kitzingen	307	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	No Asbestos			UnD	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	Trace,<1% amosite			UnD	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 8 inches	12			boiler room	Family Housing	yes	11-Dec-97	Trace,<1% amosite			UnD	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 5 inches	5			boiler room	Family Housing	yes	11-Dec-97	2% amosite			heavy	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 5 inches	5			boiler room	Family Housing	yes	11-Dec-97	2% amosite			heavy	Abated
Basem	Rar	F.H. Kitzingen	307	pipe insulation 5 inches	5			boiler room	Family Housing	yes	11-Dec-97	2% amosite			heavy	Abated
All	Hsg	F.H. Kitzingen	308	Linoleum		326	55	Kitch,.Bathrms	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	308	Plaster		3857	55	All	Families	No	11/21/89	Assumed			UnD	
Basem	Rar	F.H. Kitzingen	308	pipe insulation 6 inches	7			boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	No Asbestos	heavy	
Basem	Rar	F.H. Kitzingen	308	pipe insulation 6 inches	7			boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	No Asbestos	heavy	
Basem	Rar	F.H. Kitzingen	308	pipe insulation 6 inches	7			boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	No Asbestos	heavy	
Basem	Rar	F.H. Kitzingen	309	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	309	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	309	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
All	Hsg	F.H. Kitzingen	310	Linoleum		268	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	

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All	Hsg	F.H. Kitzingen	310	Plaster		4833	55	All	Families	No	11/21/89	Assumed			UnD	
Attic,Bs		F.H. Kitzingen	310	Pipe Insulation				Bs,Attic		Yes	11/21/89	No Asbestos				
Attic,Bs		F.H. Kitzingen	310	Pipe Insulation				Bs,Attic		Yes	11/21/89	No Asbestos				
Attic,Bs		F.H. Kitzingen	310	Pipe Insulation				Bs,Attic		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	311	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			heavy	Abated
Basem	Rar	F.H. Kitzingen	311	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	Trace,<1%chrysotile			heavy	Abated
Basem	Rar	F.H. Kitzingen	311	pipe insulation	7			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			heavy	Abated
All	Hsg	F.H. Kitzingen	312	Linoleum		167	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	312	Plaster		3532	55	All	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	312	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	312	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	312	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	5			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	5			boiler room	Family Housing	yes	12-Dec-97	(QC) no Asbestos			light	dupl. of KFH-313-01-01
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	5			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	5			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	2			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	2			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	2			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	4			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	4			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation	4			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	30			boiler room	Family Housing	yes	12-Dec-97	Quantity insufficent for analysis			Und	may also be EHS sample# 62: KFH-313-04-R1is negative
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	30			boiler room	Family Housing	yes	12-Dec-97	Quantity insufficent for analysis			Und	may also be EHS sample# 63: KFH-313-04-R2 is negative
Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	30			boiler room	Family Housing	yes	12-Dec-97	(QC) mp ACM			Und	dupl. of KFH-313-04-02

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Basem	Rar	F.H. Kitzingen	313	pipe insulation 3 inches	30			boiler room	Family Housing	yes	12-Dec-97	Quantity insufficent for analysis			Und	may also be EHS sample#64: KFH-313-04-R3 is negative
Basem	Hsg	F.H. Kitzingen	314	Pipe Insulation		488	60	Bs	Families	No	11/21/89	Assumed			UnD	
Top Floor	Hsg	F.H. Kitzingen	314	2'x2' Floor Tile		205	55	Living Areas	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	314	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
Basem	Rar	F.H. Kitzingen	314	pipe insulation 5 inches	30		55	boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	Trace,<1%chrysotile	UnD	
Basem	Rar	F.H. Kitzingen	314	pipe insulation 5 inches	30			boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	No Asbestos	UnD	
Basem	Rar	F.H. Kitzingen	314	pipe insulation 5 inches	30		55	boiler room	Family Housing	yes	Nov-89	Assumed	12-Dec-97	Trace,<1%chrysotile	UnD	
Basem	Rar	F.H. Kitzingen	315	pipe insulation 4 inches	11			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			heavy	
Basem	Rar	F.H. Kitzingen	315	pipe insulation 4 inches	11			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			heavy	
Basem	Rar	F.H. Kitzingen	315	pipe insulation 4 inches	11			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			heavy	
All	Hsg	F.H. Kitzingen	316	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	316	Linoleum		302	55	Kitch.,Bathrms	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	316	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	316	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	316	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	317	pipe insulation 5 inches	15			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	317	pipe insulation 5 inches	15			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	317	pipe insulation 5 inches	15			boiler room	Family Housing	yes	12-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	317	pipe insulation 5 inches	15			boiler room	Family Housing	yes	12-Dec-97	(QC) no Asbestos			light	dupl. of KFH-317-01-03
1	Rar	F.H. Kitzingen	318	rope gasket	244			heat plant	Maintenance	no	Nov-89	chrysotile 85%	16-Dec-97	visual inspection	heavy	Abated
Basem	Rar	F.H. Kitzingen	318	solid gasket material		5		basement	Maintenance	no	Nov-89	Assumed	16-Dec-97	visual inspection	Und	Abated
Attic	Rar	F.H. Kitzingen	318	transite roof		558	51	attic/roof	Maintenance	no	Nov-89	Assumed	16-Dec-97	visual inspection	Und	
Basem	Rar	F.H. Kitzingen	318	tank insulation		13	63	heat plant basement	Maintenance	yes	Nov-89	Assumed	16-Dec-97	Trace,<1%chrysotile; Trace, <1%amosite	Und	
Basem	Rar	F.H. Kitzingen	318	tank insulation		13		heat plant basement	Maintenance	yes	Nov-89	Assumed	16-Dec-97	(QC) No Asbestos	Und	dupl. of KFH-318-01-01
Basem	Rar	F.H. Kitzingen	318	tank insulation		13	63	heat plant basement	Maintenance	yes	Nov-89	Assumed	16-Dec-97	Trace,<1%chrysotile; Trace, <1%amosite	Und	

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Rar	F.H. Kitzingen	318	tank insulation		13	63	heat plant basement	Maintenance	yes	Nov-89	Assumed	16-Dec-97	Trace,<1%chrysotile; Trace, <1%amosite	Und	
1	Rar	F.H. Kitzingen	318	rope gasket	244			heat plant	Maintenance	no	Nov-89	chrysotile 85%	16-Dec-97	visual inspection	heavy	Abated
1	Rar	F.H. Kitzingen	318	rope gasket	244			heat plant	Maintenance	no	Nov-89	chrysotile 85%	16-Dec-97	visual inspection	heavy	Abated
1	Rar	F.H. Kitzingen	318	rope gasket	244			heat plant	Maintenance	no	Nov-89	chrysotile 85%	16-Dec-97	visual inspection	heavy	Abated
	Rar	F.H. Kitzingen	320	transite shed roof		13		AAFES supermarket	Supermarket	no	Jun-90	Assumed	15-Dec-97	visual inspection	heavy	Abated
Basem	Rar	F.H. Kitzingen	320	pipe insulation 4 inches		1.5		boiler room	Supermarket	yes	Jun-90	not identified	15-Dec-97	No Asbestos	light	
Basem	Rar	F.H. Kitzingen	320	pipe insulation 4 inches		1.5		boiler room	Supermarket	yes	Jun-90	not identified	15-Dec-97	No Asbestos	light	
Basem	Rar	F.H. Kitzingen	320	pipe insulation 4 inches		1.5		boiler room	Supermarket	yes	Jun-90	not identified	15-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	2' x 2' suspended ceiling		350		AAFES supermarket	Supermarket	no	Jun-90	No Asbestos	16-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	2' x 2' suspended ceiling		350		AAFES supermarket	Supermarket	no	Jun-90	No Asbestos	16-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	2' x 2' suspended ceiling		350		AAFES supermarket	Supermarket	no	Jun-90	No Asbestos	16-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	wallplaster		744		AAFES supermarket	Supermarket	no	Jun-90	Assumed	16-Dec-97	Quantity insufficent for analysis	light	
1	Frq	F.H. Kitzingen	320	wallplaster		744		AAFES supermarket	Supermarket	no	Jun-90	Assumed	16-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	wallplaster		744		AAFES supermarket	Supermarket	no	Jun-90	Assumed	16-Dec-97	No Asbestos	light	
1	Frq	F.H. Kitzingen	320	12" x 12" floor tiles, beige		20		AAFES supermarket	Supermarket	no	Jun-90	not identified	16-Dec-97	No Asbestos	UnD	
1	Frq	F.H. Kitzingen	320	12" x 12" floor tiles, beige		20		AAFES supermarket	Supermarket	no	Jun-90	not identified	16-Dec-97	No Asbestos	UnD	
1	Frq	F.H. Kitzingen	320	12" x 12" floor tiles, beige		20		AAFES supermarket	Supermarket	no	Jun-90	not identified	16-Dec-97	No Asbestos	UnD	
3	Hsg	F.H. Kitzingen	321	2'x2' Floor Tile		446	55	Bedrms,Living Rm	Families	No	11/21/89	Assumed			UnD	
1,2,3	Hsg	F.H. Kitzingen	321	Linoleum		84	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	321	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
Exterior	Hsg	F.H. Kitzingen	321	Transite Panels		465	43	Exterior	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	321	Pipe Insulation				Hting Rm		No	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	321	Pipe Insulation				Hting Rm		No	11/21/89	No Asbestos				

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		F.H. Kitzingen	321	Pipe Insulation				Hting Rm		No	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	322	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			heavy	
Basem	Rar	F.H. Kitzingen	322	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			heavy	
Basem	Rar	F.H. Kitzingen	322	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			heavy	
3	Hsg	F.H. Kitzingen	323	2'x2' Floor Tile		446	55	Bedrms,Living Rm	Families	No	11/21/89	Assumed			UnD	
1,2	Hsg	F.H. Kitzingen	323	Linoleum		84	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	323	Plaster		5018	55	All	Families	No	11/21/89	Assumed			UnD	
Exterior	Hsg	F.H. Kitzingen	323	Transite Panels		465	43	Exterior	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	323	Pipe Insulation				Hting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	323	Pipe Insulation				Hting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	323	Pipe Insulation				Hting Rm		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	324	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	324	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	324	pipe insulation 4 inches	11			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
All	Hsg	F.H. Kitzingen	325	1'x1' Floor Tile		121	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	325	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	325	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	325	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	325	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	326	pipe insulation 5 inches	12			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	326	pipe insulation 5 inches	12			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	326	pipe insulation 5 inches	12			boiler room	Family Housing	yes	15-Dec-97	(QC) no Asbestos			light	dupl. of KFH-326-01-02
Basem	Rar	F.H. Kitzingen	326	pipe insulation 5 inches	12			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
All	Under Cons	F.H. Kitzingen	327	Linoleum		130	55	Kitchens	None	No	11/21/89	Assumed			UnD	
All	Under Cons	F.H. Kitzingen	327	Plaster		5019	55	All	None	No	11/21/89	Assumed			UnD	
Basem	Rar	F.H. Kitzingen	328	pipe insulation 4 inches	15			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	328	pipe insulation 4 inches	15			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	328	pipe insulation 4 inches	15			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
All	Hsg	F.H. Kitzingen	329	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	329	Linoleum		116	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	329	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		F.H. Kitzingen	329	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Transite Board				Meeting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Transite Board				Meeting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Transite Board				Meeting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Transite Board				Meeting Rm		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	329	Transite Board				Meeting Rm		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	330	pipe insulation 5 inches	13			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	330	pipe insulation 5 inches	13			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
Basem	Rar	F.H. Kitzingen	330	pipe insulation 5 inches	13			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	
1,2,3	Hsg	F.H. Kitzingen	331	Linoleum		112	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
Attic Apts.	Hsg	F.H. Kitzingen	331	2'x2' Floor Tile		446	55	Attic Apts.	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	331	Plaster		5019	55	All	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	331	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	331	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	331	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem	Rar	F.H. Kitzingen	332	pipe insulation 4 inches	13			boiler room	Family Housing	yes	15-Dec-97	Trace,<1%chrysotile			light	Abated
Basem	Rar	F.H. Kitzingen	332	pipe insulation 4 inches	13			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	Abated
Basem	Rar	F.H. Kitzingen	332	pipe insulation 4 inches	13			boiler room	Family Housing	yes	15-Dec-97	No Asbestos			light	Abated
1,2,3	Hsg	F.H. Kitzingen	333	Linoleum		112	55	Kitchens	Families	No	11/21/89	Assumed			UnD	
Attic	Hsg	F.H. Kitzingen	333	2'x2' Floor Tile		446	55	Apts	Families	No	11/21/89	Assumed			UnD	
All	Hsg	F.H. Kitzingen	333	Plaster		529	55	All	Families	No	11/21/89	Assumed			UnD	
Basem		F.H. Kitzingen	333	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	333	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Basem		F.H. Kitzingen	333	Pipe Insulation				Bs		Yes	11/21/89	No Asbestos				
Attic		F.H. Kitzingen	333	Tar Paper Wrap				Attic		Yes	11/21/89	No Asbestos				
Attic		F.H. Kitzingen	333	Tar Paper Wrap				Attic		Yes	11/21/89	No Asbestos				
Attic		F.H. Kitzingen	333	Tar Paper Wrap				Attic		Yes	11/21/89	No Asbestos				
Basem	Hsg	F.L.H. Giebelst.	Otterstrass	Transite Duct		5	65	Laundry Rm	Mil. Residents	No	11/28/89	Assumed			UnD	
1,Bs	Hsg	F.L.H. Giebelst.	Otterstrass	1'x1' Floor Tile		70	60	Base. Hall,Kitch.	Mil. Residents	No	11/28/89	Assumed			UnD	

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Hsg	F.L.H. Giebelst.	Otterstrass	9"x9" Floor Tile		93	60	Hallway	Mil. Residents	No	11/28/89	Assumed			UnD	
1	Hsg	F.L.H. Giebelst.	Otterstrass	Linoleum		46	60	Kitchen	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Ingolst.	Heinestrass	Textured Wallpaper		1084	64	All	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Ingolst.	Heinestrass	Plaster		1084	60	All	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Ingolst.	Heinestrass	1'x1' Floor Tile		268	60	All(not kit&bath)	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Ernst Reute	Textured Wallpaper		6583	64	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Ernst Reute	2'x2' Floor Tile		372	60	Kitch.,Hall Clos.	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Ernst Reute	Linoleum		1784	60	Liv. Rm,Halls	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Ernst Reute	Plaster		6583	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
Roof	Hsg	F.L.H. Kitzingen	Ernst Reute	Transite		232	53	Outside	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	Textured Wallpaper		764	64	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	Textured Wallpaper		2007	64	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	Textured Wallpaper		1506	64	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	12"x12" Floor Tile		764	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	Plaster		1675	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	12"x12" Floor Tile		2007	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	Plaster		3808	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Kitzingen	Schuetznst	12"x12" Floor Tile		1506	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
Basem	Hsg	F.L.H. Kitzingen	Schuetznst	Transite		2	60	Laundry Rm	Mil. Residents	No	11/27/89	Assumed			UnD	

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
All	Hsg	F.L.H. Kitzingen	Schuetzenst	Plaster		2954	60	All	Mil. Residents	No	11/27/89	Assumed			UnD	
Basem	Hsg	F.L.H. Kitzingen	Schuetzenst	Tar Paper Pipe Wrap			59	Stor	Mil. Residents	No	11/27/89	Assumed			UnD	
Roof	Hsg	F.L.H. Kitzingen	Schuetzenst	Transite		93	53	Outside	Mil. Residents	No	11/27/89	Assumed			UnD	
Roof	Hsg	F.L.H. Kitzingen	Schuetzenst	Transite		65	53	Outside	Mil. Residents	No	11/27/89	Assumed			UnD	
All	Hsg	F.L.H. Reichen.	Hattenhause	Textured Wallpaper		921	64	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Reichen.	Hattenhause	Plaster		1382	60	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Reichen.	Hattenhause	Linoleum		423	60	All(not bathrms)	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Reichen.	Hattenhause	Plaster		2764	60	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Reichen.	Hattenhause	Linoleum		846	60	All(not bathrm)	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Reichen.	Hattenhause	Transite Duct			53	Outside	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Reichen.	Hattenhause	Transite Duct			53	Outside	Mil. Residents	No	11/29/89	Assumed			UnD	
3	Hsg	F.L.H. Reichen.	Hattenhause	Dry Wall		153	50	All	Mil. Residents	No	11/29/89	Assumed			UnD	
3	Hsg	F.L.H. Reichen.	Hattenhause	Dry Wall		307	50	All	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Reichen.	Hattenhause	Gasket Material	2		45	All	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Reichen.	Hattenhause	Gasket Material	3		35	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All		F.L.H. Reichen.	Hattenhause	Textured Wallpaper				All		Yes	11/29/89	No Asbestos				
All		F.L.H. Reichen.	Hattenhause	Textured Wallpaper				All		Yes	11/29/89	No Asbestos				
All		F.L.H. Reichen.	Hattenhause	Textured Wallpaper				All		Yes	11/29/89	No Asbestos				
All	Hsg	F.L.H. Sulzdorf	Kirchenheim	Textured Wallpaper		6289	64	All	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Sulzdorf	Kirchenheim	Linoleum		1673	60	All(not Bathrm)	Mil. Residents	No	11/28/89	Assumed			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
All	Hsg	F.L.H. Sulzdorf	Kirchenheim	Plaster		6289	60	All	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Sulzdorf	Kirchenheim	Dry Wall		37	60	BedRms	Mil. Residents	No	11/28/89	Assumed			UnD	
All	Hsg	F.L.H. Winterh.	Rosenweg 8	Textured Wallpaper		2230	64	All	Mil. Residents	No	11/30/89	Assumed			UnD	
All	Hsg	F.L.H. Winterh.	Rosenweg 8	Dry Wall		2230	60	All	Mil. Residents	No	11/30/89	Assumed			UnD	
Basem	Hsg	F.L.H. Winterh.	Rosenweg 8	Gasket Material			45	Heater Rm	Mil. Residents	No	11/30/89	Assumed			UnD	
All	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	Textured Wallpaper		17000	64	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	1'x1' Floor Tile		5297	60	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	Plaster		16821	60	All	Mil. Residents	No	11/29/89	Assumed			UnD	
All	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	Dry Wall		2509	60	All	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	Transite			60	Stairwell	Mil. Residents	No	11/29/89	Assumed			UnD	
Basem	Hsg	F.L.H. Wurz-Heuc	Wien. Ring/	Gasket Material	3		45	All	Mil. Residents	No	11/29/89	Assumed			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles gray		12		break room	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles gray		12		break room	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles gray		12		break room	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles gray		12		break room	Civilian/Military	no	13-Jan-98	(QC) no Asbestos			UnD	dupl. of FA-202-01-03
1	Frq	Faulenberg	202	9" x 9" floor tiles green under carpet		30	28	office (counter)	Civilian/Military	no	13-Jan-98	3% chrysotile			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles green under carpet		30		office (counter)	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	202	9" x 9" floor tiles green under carpet		30	28	office (counter)	Civilian/Military	no	13-Jan-98	3% chrysotile			UnD	
1	Frq	Faulenberg	202	12" x 12" floor tiles beige under carpet		30		office (counter)	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	202	12" x 12" floor tiles beige under carpet		30		office (counter)	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Faulenberg	202	12" x 12" floor tiles beige under carpet		30		office (counter)	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
Basem	Brk	Faulenberg	203	Tank Insulation		45	53	Hting Rm	Army Pers.	Yes	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	203	Drywall		121	50	Sewing & Carpet	Army Pers.	No	13-11-89	Assumed			UnD	
Bs, 1st		Faulenberg	203	Pipe Insulation				All		Yes	15-11-89	No Asbestos				
Bs, 1st		Faulenberg	203	Pipe Insulation				All		Yes	15-11-89	No Asbestos				
Bs, 1st		Faulenberg	203	Pipe Insulation				All		Yes	13-11-89	No Asbestos				
1	Tmp	Faulenberg	205	wall plaster		130		entrance hall	Civilian/Military	no	13-Jan-98	No Asbestos			light	
1	Tmp	Faulenberg	205	wall plaster		130		entrance hall	Civilian/Military	no	13-Jan-98	No Asbestos			light	
1	Tmp	Faulenberg	205	wall plaster		130		entrance hall	Civilian/Military	no	13-Jan-98	No Asbestos			light	
2	Tmp	Faulenberg	205	12" x 12" floor tiles beige		23		office 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
2	Tmp	Faulenberg	205	12" x 12" floor tiles beige		23		office 2nd floor	Civilian/Military	no	13-Jan-98	(QC) no Asbestos			UnD	dupl. of FA-205-02-01
2	Tmp	Faulenberg	205	12" x 12" floor tiles beige		23		office 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
2	Tmp	Faulenberg	205	12" x 12" floor tiles beige		23		office 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
2	Tmp	Faulenberg	205	suspended ceiling		180		storage hall 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
2	Tmp	Faulenberg	205	suspended ceiling		180		storage hall 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
2	Tmp	Faulenberg	205	suspended ceiling		180		storage hall 2nd floor	Civilian/Military	no	13-Jan-98	No Asbestos			UnD	
All	Brk	Faulenberg	208	Plaster		7	50	All	Army Pers.	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	217	Drywall		3	50	BathRm	Army Pers.	No	14-11-89	Assumed			UnD	
Basem	Rar	Faulenberg	217	pipe insulation 8 inches	16			heating room	Civilian/Military	yes	Dec-94	15% amosite	14-Jan-98	visual inspection	light	Abated
Basem		Faulenberg	217	tank insulation		46		heating room	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection		Abated
Attic,B		Faulenberg	217	transite panel		5		attic, piece in corner, heating room	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection		Abated
1	Frq	Faulenberg	217	12" x 12" floor tiles beige		100		office 1st floor	Civilian/Military	no	Nov-89	not identified	14-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	217	12" x 12" floor tiles beige		100		office 1st floor	Civilian/Military	no	Nov-89	not identified	14-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	217	12" x 12" floor tiles beige		100		office 1st floor	Civilian/Military	no	Nov-89	not identified	14-Jan-98	No Asbestos	UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Tmp	Faulenberg	217	pipe insulation 4 inches	18			storage hall 1st floor	Civilian/Military	yes	Nov-89	not identified	14-Jan-98	5% amosite	light	Abated
1	Tmp	Faulenberg	217	pipe insulation 4 inches	18			storage hall 1st floor	Civilian/Military	yes	Nov-89	not identified	14-Jan-98	6% amosite	light	Abated
1	Tmp	Faulenberg	217	pipe insulation 4 inches	18			storage hall 1st floor	Civilian/Military	yes	Nov-89	not identified	14-Jan-98	5% amosite	light	Abated
2	Frq	Faulenberg	217	9" x 9" floor tiles gray		35		office 2nd floor (motorola)	Civilian/Military	no	Nov-89	not identified	15-Jan-98	No Sample in Container	UnD	
2	Frq	Faulenberg	217	9" x 9" floor tiles gray		35		office 2nd floor (motorola)	Civilian/Military	no	Nov-89	not identified	15-Jan-98	No Asbestos	UnD	
2	Frq	Faulenberg	217	9" x 9" floor tiles gray		35		office 2nd floor (motorola)	Civilian/Military	no	Nov-89	not identified	15-Jan-98	No Asbestos	UnD	
Attic		Faulenberg	217	ACM Millboard		1		attic storage	Civilian/Military	yes	Nov-89	65% chrysotile	15-Jan-98	visual inspection		Abated
Attic		Faulenberg	217	ACM Millboard		1		attic storage	Civilian/Military	yes	Nov-89	65% chrysotile	15-Jan-98	visual inspection		Abated
Attic		Faulenberg	217	ACM Millboard		1		attic storage	Civilian/Military	yes	Nov-89	65% chrysotile	15-Jan-98	visual inspection		Abated
Basem	Brk	Faulenberg	219	9"X9" Floor Tile		63	50	13, 14	Army Pers.	No	16-11-89	Assumed			UnD	
Bsmt, 1st, 2nd	Brk	Faulenberg	219	Linoleum		1	50	Various	Army Pers.	No	16-11-89	Assumed			UnD	
1st, 2nd	Brk	Faulenberg	219	2'X2' Ceiling Tile		1	50	Various	Army Pers.	No	16-11-89	Assumed			UnD	
All	Brk	Faulenberg	219	Plaster		3	50	All	Army Pers.	No	16-11-89	Assumed			UnD	
Basem	Brk	Faulenberg	219	Pipe Insulation	183			Hting Rm	N/A	No	15-12-94	Assumed				Abated
Basem	Brk	Faulenberg	219	Tank Insulation		19		Hting Rm	Army Pers.	No	15-12-94	Assumed				Abated
All	Brk	Faulenberg	220	Plaster		6	50	All	Army Pers.	No	15-11-89	Assumed			UnD	
Basem		Faulenberg	220	Pipe Insulation				Bsmt, 008		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Pipe Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Pipe Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Pipe Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Pipe Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Tank Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
Basem		Faulenberg	220	Tank Insulation				Hting Rm		Yes	15-11-89	No Asbestos				Abated
2	Frq	Faulenberg	220	tan linoleum		3903	28	throughout	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	under carpet
3	Frq	Faulenberg	220	9" x 9" floor tiles black+white		167	53	hallway 3rd floor	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	
Basem	Tmp	Faulenberg	220	transite panels		5		stairwell near room 8	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	Abated

417th BSB Asbestos Survey

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Basem	Rar	Faulenberg	220	tank insulation		65		Main heating room	Civilian/Military	yes	Dec-94	2% chrysotile	14-Jan-98	visual inspection	light	Abated
Basem	Rar	Faulenberg	220	pipe insulation	320			throughout	Civilian/Military	yes	Nov-89	15% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			throughout	Civilian/Military	yes	Dec-94	40% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			heating room	Civilian/Military	yes	Dec-94	40% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	320			throughout	Civilian/Military	yes	Nov-89	10% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	tank insulation		65		heating room	Civilian/Military	yes	Dec-94	2% chrysotile	14-Jan-98	visual inspection	light	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			heating room	Civilian/Military	yes	Dec-94	40% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	320			throughout	Civilian/Military	yes	Nov-89	5% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	320			throughout	Civilian/Military	yes	Nov-89	15% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			heating room	Civilian/Military	yes	Dec-94	<1% amos.,<1% chr.	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			heating room	Civilian/Military	yes	Dec-94	trace of chrysotile	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	320			throughout	Civilian/Military	yes	Nov-89	15% amosite	14-Jan-98	visual inspection	heavy	Abated
Basem	Rar	Faulenberg	220	pipe insulation	213			heating room	Civilian/Military	yes	Dec-94	40% amosite	14-Jan-98	visual inspection	heavy	Abated
4th	Brk	Faulenberg	221	12"X12" Acstcl Tile		130	50	408, 414	Army Pers.	No	15-11-89	Assumed			UnD	
All	Brk	Faulenberg	221	9"X9" Floor Tile		118	50	Various	Army Pers.	No	15-11-89	Assumed			UnD	
All	Brk	Faulenberg	221	Drywall		1	50	Various	Army Pers.	No	15-11-89	Assumed			UnD	
All	Brk	Faulenberg	221	Plaster		2	50	All	Army Pers.	No	15-11-89	Assumed			UnD	
Basem	Brk	Faulenberg	221	Eltrcl Wire Wrap	3		45	10	Army Pers.	No	15-11-89	Assumed			UnD	
Basem	Brk	Faulenberg	221	Pipe Insulation	384			Thruout	Army Pers.	No	15-11-89	25% Amo.				Abated
Basem	Brk	Faulenberg	221	Pipe Insulation	384			Thruout	Army Pers.	No	15-11-89	25% Amo.				Abated
Basem	Brk	Faulenberg	221	Patching For Pl	1			12	Army Pers.	Yes	15-11-89	10% Amo.				Abated
1st, 4th		Faulenberg	221	2'X2' Ceiling Tile				Hallway		Yes	15-11-89	No Asbestos				
1st, 4th		Faulenberg	221	2'X2' Ceiling Tile				Hallway		Yes	15-11-89	No Asbestos				
1st, 4th		Faulenberg	221	2'X2' Ceiling Tile				Hallway		Yes	15-11-89	No Asbestos				
1st, 4th		Faulenberg	221	2'X2' Ceiling Tile				Hallway		Yes	15-11-89	No Asbestos				
1, 2, 3		Faulenberg	221	2'X2' Ceiling Tile				Various		Yes	15-11-89	No Asbestos				
1, 2, 3		Faulenberg	221	2'X2' Ceiling Tile				Various		Yes	15-11-89	No Asbestos				
1, 2, 3		Faulenberg	221	2'X2' Ceiling Tile				Various		Yes	15-11-89	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
4		Faulenberg	221	2'X2' Ceiling Tile				404-06/410-11/414		Yes	15-11-89	No Asbestos				
4		Faulenberg	221	2'X2' Ceiling Tile				404-06/410-11/414		Yes	15-11-89	No Asbestos				
4		Faulenberg	221	2'X2' Ceiling Tile				404-06/410-11/414		Yes	15-11-89	No Asbestos				
2nd, 4th		Faulenberg	221	12"X12" Acstcl Tile				117, 409		Yes	15-11-89	No Asbestos				
2nd, 4th		Faulenberg	221	12"X12" Acstcl Tile				117, 409		Yes	15-11-89	No Asbestos				
2nd, 4th		Faulenberg	221	12"X12" Acstcl Tile				117, 409		Yes	15-11-89	No Asbestos				
Basem		Faulenberg	221	Pipe Insulation				Thruout		No	15-11-89	No Asbestos				
Basem		Faulenberg	221	Patching For Pl				12		Yes	15-11-89	No Asbestos				
Basem		Faulenberg	221	Patching For Pl				12		Yes	15-11-89	No Asbestos				
1st	Brk	Faulenberg	223	Gasket Material		28	63	Steam Fitters Rm	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	Rope Gasket Mtrl	152		63	Steam Fitters Rm	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	Duct Cloth		5	60	Carp. Shop	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	Oven Liner	2		60	Carp. Shop	Army Pers.	No	13-11-89	Assumed			UnD	
1	Brk	Faulenberg	223	Millbrd (ACM lbld)		3	53	Steam Fitters Rm	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	9"X9" Floor Tile		56	50	Carp. Shop	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	2'X2' Floor Tile		37	50	Sewage Rm	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	Drywall		24	45	Road Repair Shop	Army Pers.	No	13-11-89	Assumed			UnD	
1st	Brk	Faulenberg	223	Pipe Insulation	67			Thruout	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st		Faulenberg	223	2'X2' Ceiling Tile				Lunch/Carp. Rms		Yes	13-11-89	No Asbestos				
1st		Faulenberg	223	2'X2' Ceiling Tile				Lunch/Carp. Rms		Yes	13-11-89	No Asbestos				
1st		Faulenberg	223	2'X2' Ceiling Tile				Lunch/Carp. Rms		Yes	13-11-89	No Asbestos				
1st	Brk	Faulenberg	225	Drywall		102	50	Thruout	Army Pers.	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	225	Plaster		5	50	Sheet Metal Shp	Army Pers.	No	14-11-89	Assumed			UnD	
Basem		Faulenberg	225	2'X2' Ceiling Tile				Break		Yes	14-11-89	No Asbestos				
Basem		Faulenberg	225	2'X2' Ceiling Tile				Break		Yes	14-11-89	No Asbestos				
Basem		Faulenberg	225	2'X2' Ceiling Tile				Break		Yes	14-11-89	No Asbestos				
Basem		Faulenberg	225	tank insulation		56		heating room	Civilian/Military	no	Dec-94	Assumed	14-Jan-98	visual inspection		Abated

417th BSB Asbestos Survey																
Floor	***Use***	***Installation:***	***Bldg No.***	***Description:***	***LM***	***SM***	***ALG***	***Rm No.***	***Type of bldg.***	***Fri.***	***Date of survey:***	***Result of survey:***	***Date of resurvey***	***Result of resurvey***	***Cond.***	***Comments***
1	Frq	Faulenberg	225	9" x 9" floor tiles gray		23	53	break room	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	
1	Frq	Faulenberg	225	12" x 12" floor tiles beige		14	53	break room	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	
1	Frq	Faulenberg	225	linoleum		23	63	tools storage	Civilian/Military	no	Nov-89	Assumed	14-Jan-98	visual inspection	UnD	
all	Frq	Faulenberg	225	pipe insulation 5 inches	194		44	hallway, basement, 1st floor	Civilian/Military	yes	Dec-94	5% amosite	14-Jan-98	visual inspection	UnD	"Encapsulated"
all	Frq	Faulenberg	225	pipe insulation 5 inches	194		44	hallway, basement, 1st floor	Civilian/Military	yes	Dec-94	5% amosite	14-Jan-98	visual inspection	UnD	"Encapsulated"
all	Frq	Faulenberg	225	pipe insulation 5 inches	194		44	hallway, basement, 1st floor	Civilian/Military	yes	Dec-94	5% amosite	14-Jan-98	visual inspection	UnD	"Encapsulated"
All	Brk	Faulenberg	229	1'X1' Floor Tile		604	50	Thruout	Army Pers.	No	16-11-89	Assumed			UnD	
1st	Brk	Faulenberg	229	Drywall		9	50	West End of Bldg	Army Pers.	No	16-11-89	Assumed			UnD	
All	Brk	Faulenberg	229	Plaster		1	50	All	Army Pers.	No	16-11-89	Assumed			UnD	
1st, Htng Rm	Brk	Faulenberg	229	Pipe Insulation	37			W. End/Htng Rm	Army Pers.	No	15-12-94	Assumed				Abated
Hting Plt	Brk	Faulenberg	229	Tank Insulation		2		Hting Rm	Army Pers.	No	15-12-94	Assumed				Abated
1	Frq	Faulenberg	233	12" x 12" floor tile beige		15		office	Civilian/Military	no	15-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	233	12" x 12" floor tile beige		15		office	Civilian/Military	no	15-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	233	12" x 12" floor tile beige		15		office	Civilian/Military	no	15-Jan-98	No Asbestos			UnD	
1		Faulenberg	234	pipe insulation	43			heating room and offices	Maintenance	yes	Nov-89	Assumed	15-Jan-98	visual inspection		Abated
Basem		Faulenberg	234	boiler insulation		2		heating room	Maintenance	yes	Nov-89	Assumed	15-Jan-98	visual inspection		Abated
1	Frq	Faulenberg	234	12" x 12" floor tile beige		190		office	Civilian/Military	no	?	not identified	15-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	234	12" x 12" floor tile beige		190		office	Civilian/Military	no	?	not identified	15-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	234	12" x 12" floor tile beige		190		office	Civilian/Military	no	?	not identified	15-Jan-98	No Asbestos	UnD	
All	Brk	Faulenberg	237	Plaster		2	50	All	Army Pers.	No	16-11-89	Assumed			UnD	
1st, E. End Bldg	Brk	Faulenberg	237	Pipe Insulation	21			E. End of Bldg	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st		Faulenberg	237	Tapeovr of Wrkbnch				Metal/Wood Shop		Yes	16-11-89	No Asbestos				
1st		Faulenberg	237	Tapeovr of Wrkbnch				Metal/Wood Shop		Yes	16-11-89	No Asbestos				
1st		Faulenberg	237	Tapeovr of Wrkbnch				Metal/Wood Shop		Yes	16-11-89	No Asbestos				
1	Tmp	Faulenberg	237	electrical wiring insulation	9		58	centre of building	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	
1.2	Frq	Faulenberg	237	2' x 2' yellow floor tile		282	53	Canteen	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	

APPENDIX D

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
1	Tmp	Faulenberg	237	transite panels		86	68	Centre of building/Elevator	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	light	
1	Tmp	Faulenberg	237	pipe insulation	21			Eastern part of building	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	no access
1	Tmp	Faulenberg	237	welding vent		2	53	Centre of building	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	
1		Faulenberg	237	wall board		37		Old laundry	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	Abated
1		Faulenberg	237	1' x 1' ceiling tile		9		office	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	Abated
1	Frq	Faulenberg	237	2' x 2' ceiling tile		129		Dining room/Eating area	Army Pers.	yes	Nov-89	Assumed	15-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	237	2' x 2' ceiling tile		129		Dining room/Eating area	Army Pers.	yes	Nov-89	Assumed	15-Jan-98	No Asbestos	UnD	dupl. of FA-237-01-01
1	Frq	Faulenberg	237	2' x 2' ceiling tile		129		Dining room/Eating area	Army Pers.	yes	Nov-89	Assumed	15-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	237	2' x 2' ceiling tile		129		Dining room/Eating area	Army Pers.	yes	Nov-89	Assumed	15-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	237	9" x 9" floor tile green/red		16		Centre of building/Office	Army Pers.	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	237	9" x 9" floor tile green/red		16		Centre of building/Office	Army Pers.	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	237	9" x 9" floor tile green/red		16		Centre of building/Office	Army Pers.	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1		Faulenberg	237	ACM Board		1		Metal/Wood Shop	Civilian	yes	Nov-89	10%amosite, 60%chrysotile	15-Jan-98	visual inspection		Abated
1		Faulenberg	237	ACM Board		1		Metal/Wood Shop	Civilian	yes	Nov-89	10%amosite, 60%chrysotile	15-Jan-98	visual inspection		Abated
1		Faulenberg	237	ACM Board		1		Metal/Wood Shop	Civilian	yes	Nov-89	10%amosite, 60%chrysotile	15-Jan-98	visual inspection		Abated
1st, E. Wing	Brk	Faulenberg	238	Plaster		850	50	All	Army Pers.	No	16-11-89	Assumed			UnD	
1		Faulenberg	238	wall board		33		Eastern part of building	Army Pers.	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	Abated
1		Faulenberg	238	pipe insulation	53			Bays	Army Pers.	yes	Nov-89	Assumed	15-Jan-98	visual inspection		Abated
1st	Brk	Faulenberg	239	Plaster		223	50	All/expt Htng Plt	Army/Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	239	Wall Board		112	50	Various	Army/Civilian	No	18-11-89	Assumed			UnD	
Basem	Rar	Faulenberg	239	boiler insulation		1		heating room	Maintenance	no	Nov-89	Assumed	15-Jan-98	visual inspection	UnD	Abated

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Rar	Faulenberg	239	9"x9" floor tile		137	51	various rooms	Civilian/Military	no	Nov-89	Assumed	15-Jan-98	visual inspection	light	
1	Rar	Faulenberg	239	pipe insulation 5 inches	20			Storage hall	Civilian/Military	yes	Dec-94	No Asbestos	15-Jan-98	No Asbestos	light	Abated
1	Rar	Faulenberg	239	pipe insulation 5 inches	20			Storage hall	Civilian/Military	yes	Dec-94	No Asbestos	15-Jan-98	No Asbestos	light	Abated
1	Rar	Faulenberg	239	pipe insulation 5 inches	20			Storage hall	Civilian/Military	yes	Dec-94	No Asbestos	15-Jan-98	No Asbestos	light	Abated
1	Rar	Faulenberg	239	drywall		112		office	Civilian/Military	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1	Rar	Faulenberg	239	drywall		112		office	Civilian/Military	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1	Rar	Faulenberg	239	drywall		112		office	Civilian/Military	no	Nov-89	No Asbestos	15-Jan-98	No Asbestos	UnD	
1	Rar	Faulenberg	239	12" x 12" floor tiles gray		25	51	storage room	Civilian/Military	no	Nov-89	No Asbestos	16-Jan-98	Tile: 5% chrysotile; Mastic: ND	light	
1	Rar	Faulenberg	239	12" x 12" floor tiles gray		25	51	storage room	Civilian/Military	no	Nov-89	No Asbestos	16-Jan-98	Tile: 5% chrysotile; Mastic: ND	light	
1	Rar	Faulenberg	239	12" x 12" floor tiles gray		25	51	storage room	Civilian/Military	no	Nov-89	No Asbestos	16-Jan-98	Tile: 5% chrysotile; Mastic: ND	light	
Basem	Rar	Faulenberg	239	pipe insulation	82		71	heating room	Maintenance	yes	Nov-89	5% chrysotile	15-Jan-98	visual inspection	light	
Basem	Rar	Faulenberg	239	pipe insulation	82		71	heating room	Maintenance	yes	Nov-89	5% chrysotile	15-Jan-98	visual inspection	light	
Basem	Rar	Faulenberg	239	pipe insulation	82		71	heating room	Maintenance	yes	Nov-89	5% chrysotile	15-Jan-98	visual inspection	light	
1	Frq	Faulenberg	241	pipe insulation 4 inches	55			storage	Civilian/Military	yes	15-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	pipe insulation 4 inches	55			storage	Civilian/Military	yes	15-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	pipe insulation 4 inches	55			storage	Civilian/Military	yes	15-Jan-98	(QC) no Asbestos			heavy	dupl. of FA-241-01-02
1	Frq	Faulenberg	241	pipe insulation 4 inches	55			storage	Civilian/Military	yes	15-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	pipe insulation, oval	2			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	pipe insulation, oval	2			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	pipe insulation, oval	2			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	pipe insulation 5 inches	50			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	pipe insulation 5 inches	50			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	pipe insulation 5 inches	50			storage hall	Civilian/Military	yes	16-Jan-98	No Asbestos			heavy	
1	Frq	Faulenberg	241	2' x 2' ceiling tile		65		office	Civilian/Military	no	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	2' x 2' ceiling tile		65		office	Civilian/Military	no	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	2' x 2' ceiling tile		65		office	Civilian/Military	no	16-Jan-98	No Asbestos			UnD	
1	Frq	Faulenberg	241	ceiling board		20		office	Civilian/Military	yes	16-Jan-98	No Asbestos			light	under 2' x 2' ceiling tile

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Faulenberg	241	ceiling board		20		office	Civilian/Military	yes	16-Jan-98	(QC) no Asbestos			light	under 2' x 2' ceiling tile, dupl. of FA-241-05-01
1	Frq	Faulenberg	241	ceiling board		20		office	Civilian/Military	yes	16-Jan-98	No Asbestos			light	under 2' x 2' ceiling tile
1	Frq	Faulenberg	241	ceiling board		20		office	Civilian/Military	yes	16-Jan-98	No Asbestos			light	under 2' x 2' ceiling tile
All	Brk	Faulenberg	258	Plaster		4	50	All	Army Pers.	No	15-11-89	Assumed			UnD	
Basem	Tmp	Faulenberg	258	elecrical wire wrap	79		53	basement	Army Pers.	no	Nov-89	Assumed	16-Jan-98	visual inspection	UnD	
all	Frq	Faulenberg	258	9" x 9" floor tile		929		throughout	Army Pers.	no	Nov-89	Assumed	16-Jan-98	visual inspection	UnD	Abated
2	Frq	Faulenberg	258	acoustic wall board		15		office 2nd floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
2	Frq	Faulenberg	258	acoustic wall board		15		office 2nd floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
2	Frq	Faulenberg	258	acoustic wall board		15		office 2nd floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
Basem	Rar	Faulenberg	258	tank insulation		35		heating room	Maintenance	yes	Nov-89	No Asbestos	16-Jan-98	No Asbestos	heavy	Abated
Basem	Rar	Faulenberg	258	tank insulation		35		heating room	Maintenance	yes	Nov-89	No Asbestos	16-Jan-98	No Asbestos	heavy	Abated
Basem	Rar	Faulenberg	258	tank insulation		35		heating room	Maintenance	yes	Nov-89	No Asbestos	16-Jan-98	(QC) 5% chrysotile	heavy	Abated
Basem	Rar	Faulenberg	258	tank insulation		35		heating room	Maintenance	yes	Nov-89	No Asbestos	16-Jan-98	No Asbestos	heavy	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	trace of chrysotile	16-Jan-98	visual inspection	light	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	15% chrysotile	16-Jan-98	visual inspection	light	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	10% chrysotile	16-Jan-98	visual inspection	light	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	15% chrysotile	16-Jan-98	visual inspection	light	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	trace of amosite	16-Jan-98	visual inspection	light	Abated
B,3	Tmp	Faulenberg	258	pipe insulation	213			basement, 3rd floor	Army Pers.	yes	Nov-89	15 % chrysotile	16-Jan-98	visual inspection	light	Abated
1st	Brk	Faulenberg	259	Transite		109	55	Brk/Ldng/Pck-Up	Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	259	Plaster		4	50	Thruout	Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	259	2'X2' VAT, Beige		67	50	Laundry/Mgr Offc	Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	259	Wall Board		65	50	Lnch/Ldng/Lndry	Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	259	9"X9" VAT, Green		19	50	Plant Office	Civilian	No	14-11-89	Assumed			UnD	
1st	Brk	Faulenberg	259	Boiler Insulation		28		Hting	Civilian	No	15-12-94	No Asbestos			UnD	
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st		Faulenberg	259	Pipe Insulation				Thruout		Yes	14-11-89	No Asbestos				
1st	Brk	Faulenberg	263	Drywall		3	50	Thruout	Army Pers.	No	14-11-89	Assumed			UnD	
1	Frq	Faulenberg	263	12" x 12" ceiling tile		51	67	office 1st floor	Army Pers.	no	Nov-89	Assumed	16-Jan-98	visual inspection	UnD	
1	Frq	Faulenberg	263	36" x 36" ceiling tile		50		men shower room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	263	36" x 36" ceiling tile		50		men shower room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	263	36" x 36" ceiling tile		50		men shower room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	263	12" x 12" acoustic wall tiles		6		break room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	263	12" x 12" acoustic wall tiles		6		break room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Frq	Faulenberg	263	12" x 12" acoustic wall tiles		6		break room 1st floor	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	263	12" x 12" floor tiles beige		200		common room	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	263	12" x 12" floor tiles beige		200		common room	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	263	12" x 12" floor tiles beige		200		common room	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	No Asbestos	UnD	
1	Tmp	Faulenberg	263	12" x 12" floor tiles beige		200		common room	Army Pers.	no	Nov-89	No Asbestos	16-Jan-98	(QC) No Asbestos	UnD	dupl. of FA-263-03-03
Basem	Rar	Faulenberg	263	pipe insulation	79			heating room	Maintenance	yes	Nov-89	Assumed	16-Jan-98	No Asbestos	light	
Basem	Rar	Faulenberg	263	pipe insulation	79			heating room	Maintenance	yes	Nov-89	Assumed	16-Jan-98	No Asbestos	light	
Basem	Rar	Faulenberg	263	pipe insulation	79			heating room	Maintenance	yes	Nov-89	Assumed	16-Jan-98	No Asbestos	light	
1st	Brk	Faulenberg	234 A	Plaster		781	50	All	Army Pers.	No	16-11-89	Assumed			UnD	
B,1,2	Frq	Giebelstadt Air	3	Plaster		460	58	Thruout	Civilian	No	09-07-90	Assumed			UnD	
1,2	Frq	Giebelstadt Air	3	Linoleum		190	53	Thruout	Civilian	No	09-07-90	Assumed			UnD	
Basem		Giebelstadt Air	3	Pipe Insulation				Thruout			09-07-90	No Asbestos				

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Giebelstadt Air	3	Pipe Insulation				Thruout			09-07-90	No Asbestos				
Basem		Giebelstadt Air	3	Pipe Insulation				Thruout			09-07-90	No Asbestos				
1	Frq	Giebelstadt Air	511	Plaster		37	68	RestRm	Renovation Contractor	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	511	Sheetrock		14	63	RestRm	Renovation Contractor	No	10-07-90	Assumed			damaged	
outside		Giebelstadt Air	511	corrugated transite panel		149	18	roof	Civilian	no	Jul-90	55% chrysotile	22-Jan-98	visual inspection	UnD	transite panel found on roof of bldg. 516 which is attached to bldg. 511
1	Frq	Giebelstadt Air	512	Plaster		190	68	Addition	Civilian/Military	No	09-07-90	Assumed			damaged	
Exterior	Frq	Giebelstadt Air	512	Transite Siding		740	68	Walls	Civilian/Military	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	512	Sheetrock		140	63	Thruout	Civilian/Military	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	512	17"x17" Floor Tile		290	53	Thruout	Civilian/Military	No	09-07-90	Assumed			damaged	
Basem		Giebelstadt Air	512	Pipe Insulation Debris				Boiler Rm			09-07-90	No Asbestos				
Basem		Giebelstadt Air	512	Pipe Insulation Debris				Boiler Rm			09-07-90	No Asbestos				
Basem		Giebelstadt Air	512	Pipe Insulation Debris				Boiler Rm			09-07-90	No Asbestos				
1	Frq	Giebelstadt Air	529	Plaster		1468	68	Various	Military	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	529	12"x12" Floor Tile		177	63	Various	Military	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	529	Sheetrock		79	53	Weight Rm	Military	No	10-07-90	Assumed			UnD	
1	Rar	Giebelstadt Air	530	Plaster		74	56	Various	N/A	No	09-07-90	Assumed			damaged	
1	Rar	Giebelstadt Air	530	12"x12" Floor Tile		13	51	Aisle	N/A	No	09-07-90	Assumed			damaged	
1	Rar	Giebelstadt Air	530	9"x9" Floor Tile		16	51	Main Rm	N/A	No	09-07-90	Assumed			damaged	
1	Rar	Giebelstadt Air	530	Vinyl Flooring		41	51	Lobby	N/A	No	09-07-90	Assumed			damaged	
Exterior	Rar	Giebelstadt Air	530	Transite Roofing		6	43	Roof	N/A	No	09-07-90	Assumed			UnD	
1		Giebelstadt Air	530	2'X4' Ceiling Tile				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	2'X4' Ceiling Tile				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	2'X4' Ceiling Tile				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	2'x2' Wall Tile				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	2'x2' Wall Tile				Main Rm			09-07-90	No Asbestos				

417th BSB Asbestos Survey																
Floor	***Use***	***Installation:***	***Bldg No.***	***Description:***	***LM***	***SM***	***ALG***	***Rm No.***	***Type of bldg.***	***Fri.***	***Date of survey:***	***Result of survey:***	***Date of resurvey***	***Result of resurvey***	***Cond.***	***Comments***
1		Giebelstadt Air	530	2'x2' Wall Tile				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	Textured Ceiling				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	Textured Ceiling				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	Textured Ceiling				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	Textured Ceiling				Main Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	530	Textured Ceiling				Main Rm			09-07-90	No Asbestos				
1,2,3	Frq	Giebelstadt Air	531	Plaster		5110	68	Thruout	Office Pers.	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	531	Sheetrock		37	63	12,13,Offic e	Office Pers.	No	09-07-90	Assumed			damaged	
1		Giebelstadt Air	531	Pipe Insulation				Boiler Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	531	Pipe Insulation				Boiler Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	531	Pipe Insulation				Boiler Rm			09-07-90	No Asbestos				
all		Giebelstadt Air	531	12" x 12" floor tiles beige		300	53	throughout	Office Personal	no	Jul-90	not identified	21-Jan-98	Assumed	UnD	
1		Giebelstadt Air	531	20" x 20" floor tiles		65		Room 15 (1st floor)	Office Personal	no	Jul-90	Assumed	21-Jan-98	visual inspection		Abated
all		Giebelstadt Air	531	linoleum		1141	53	throughout	Office Personal	no	Jul-90	Assumed	21-Jan-98	visual inspection	UnD	
1.2		Giebelstadt Air	531	12" x 12" floor tiles black		73		Rooms 105, 201, 215	Office Personal	no	Jul-90	2% chrysotile	21-Jan-98	visual inspection		Abated
1.2		Giebelstadt Air	531	12" x 12" floor tiles black		73		Rooms 105, 201, 215	Office Personal	no	Jul-90	2% chrysotile	21-Jan-98	visual inspection	heavy	Abated
1.2		Giebelstadt Air	531	12" x 12" floor tiles black		73		Rooms 105, 201, 215	Office Personal	no	Jul-90	2% chrysotile	21-Jan-98	visual inspection	heavy	Abated
B,1,2,3	Frq	Giebelstadt Air	537	Plaster		7435	68	Thruout	Military	No	10-07-90	Assumed			damaged	
1,2,3	Frq	Giebelstadt Air	537	Textured Paint		4370	63	Thruout	Military	No	10-07-90	Assumed			damaged	
1,2,3	Frq	Giebelstadt Air	537	12"x12" Floor Tile		3350	63	Thruout	Military	No	10-07-90	Assumed			damaged	
Basem	Frq	Giebelstadt Air	537	9"x9" Floor Tile		100	63	Arms Rm	Military	No	10-07-90	Assumed			damaged	
1,2,3	Frq	Giebelstadt Air	537	Transite Air Duct	25		58	Laundry Rms	Military	No	10-07-90	Assumed			UnD	
1,2,3	Frq	Giebelstadt Air	540	Plaster		4952	68	Thruout	Officers	No	10-07-90	Assumed			UnD	
1,2,3	Frq	Giebelstadt Air	540	12"x12" Floor Tile		567	53	Various	Officers	No	10-07-90	Assumed			UnD	
1	Occ.	Giebelstadt Air	540	Sheetrock		19	48	Barber Shop	Military	No	10-07-90	Assumed			UnD	
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1,2,3		Giebelstadt Air	540	Textured Paint				Various			10-07-90	No Asbestos				
1	Frq	Giebelstadt Air	541	Plaster		1208	68	Thruout	Medical/Military	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	541	12"x12" Floor Tile		270	53	Thruout	Army Pers.	No	10-07-90	Assumed			UnD	
1	Frq	Giebelstadt Air	541	Linoleum		279	53	Thruout	Dental Staff	No	10-07-90	Assumed			UnD	
1	Frq	Giebelstadt Air	541	Sheetrock		102	53	Dental Rms	Dental Staff	No	10-07-90	Assumed			UnD	
Exterior	Occ.	Giebelstadt Air	541	Transite Siding		48	53	Perimeter	Maintenance	No	10-07-90	Assumed			UnD	
B,1,A		Giebelstadt Air	541	Textured Paint				Entrance			10-07-90	No Asbestos				
B,1,A		Giebelstadt Air	541	Textured Paint				B Stairwell			10-07-90	No Asbestos				
B,1,A		Giebelstadt Air	541	Textured Paint				Attic			10-07-90	No Asbestos				
B,1,A		Giebelstadt Air	541	Textured Paint				Attic			10-07-90	No Asbestos				
B,1	Frq	Giebelstadt Air	603	Plaster		743	68	Thruout	Firemen	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	603	Linoleum		46	63	002,Control Roo	Firemen	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	603	Sheetrock		28	53	BathRm	Firemen	No	09-07-90	Assumed			UnD	
1	Frq	Giebelstadt Air	603	12"x12" Floor Tile		24	53	3	Firemen	No	09-07-90	Assumed			damaged	
Basem	Frq	Giebelstadt Air	603	Pipe Insulation	30			Thruout	Firemen	Yes	09-07-90	20% Amo., 5% Croc.			damaged	
Basem	Frq	Giebelstadt Air	603	Pipe Insulation	100			Thruout	Firemen	Yes	09-07-90	No Asbestos			damaged	
Basem	Frq	Giebelstadt Air	603	Pipe Insulation	30			Thruout	Firemen	Yes	09-07-90	20% Amo., 10% Croc.			damaged	
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Foyer			09-07-90	No Asbestos				
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Foyer			09-07-90	No Asbestos				
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Break Rm			09-07-90	No Asbestos				
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Various			09-07-90	No Asbestos				
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Various			09-07-90	No Asbestos				
1		Giebelstadt Air	603	2'x2' Ceiling Tile				Various			09-07-90	No Asbestos				
1	Frq	Giebelstadt Air	606	Plaster		900	68	Thruout	Theater	No	09-07-90	Assumed			damaged	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Giebelstadt Air	606	Sheetrock		18	63	Concessio n	Theater	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	606	Linoleum		37	63	Concessio n/Offi	Theater	No	09-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	606	Stage Curtain		75	63	Stage	Theater	No	09-07-90	Assumed			damaged	
1		Giebelstadt Air	606	2'x2' Ceiling Tile				Theater/Sta ge			09-07-90	No Asbestos				
1		Giebelstadt Air	606	2'x2' Ceiling Tile				Theater/Sta ge			09-07-90	No Asbestos				
1		Giebelstadt Air	606	2'x2' Ceiling Tile				Theater/Sta ge			09-07-90	No Asbestos				
Basem		Giebelstadt Air	606	Pipe Insulation				Thruout			09-07-90	No Asbestos				
Basem		Giebelstadt Air	606	Pipe Insulation				Thruout			09-07-90	No Asbestos				
Basem		Giebelstadt Air	606	Pipe Insulation				Thruout			09-07-90	No Asbestos				
1	Frq	Giebelstadt Air	607	Plaster		190	68	Maintenanc e Off	Maintena nce	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	607	Transite Pipe	15		68	Office	Maintena nce	No	10-07-90	Assumed			damaged	
2	Frq	Giebelstadt Air	607	Sheetrock		400	63	Thruout	Pilots/Mai ntenance	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	607	18"x18" Floor Tile		28	63	ALSE	Pilots/Mai ntenance	No	10-07-90	Assumed			damaged	
1,2	Frq	Giebelstadt Air	607	Linoleum		280	63	Various	Various	No	10-07-90	Assumed			damaged	
1,2	Frq	Giebelstadt Air	607	12"x12" Floor Tile		280	63	Library	Library Workers	No	10-07-90	Assumed			damaged	
2	Frq	Giebelstadt Air	607	9"x9" Floor Tile		140	63	Offices	Pilots/Mai ntenance	No	10-07-90	Assumed			damaged	
Exterior	N/A	Giebelstadt Air	607	Corrugated Transite Panels		930	56	Walls/Roof	N/A	No	10-07-90	Assumed			damaged	
1		Giebelstadt Air	607	Pipe Insulation				Thruout			10-07-90	No Asbestos				
1		Giebelstadt Air	607	Pipe Insulation				Thruout			10-07-90	No Asbestos				
1		Giebelstadt Air	607	Pipe Insulation				Thruout			10-07-90	No Asbestos				
1		Giebelstadt Air	607	Pipe Insulation				Thruout			10-07-90	No Asbestos				
1	Frq	Giebelstadt Air	609	Plaster		5600	68	Thruout	Communit y Svs.	No	10-07-90	Assumed			damaged	
All	Frq	Giebelstadt Air	609	Linoleum		1860	63	Thruout	Communit y Svs.	No	10-07-90	Assumed			damaged	
Basem	Frq	Giebelstadt Air	609	Pipe Insulation Debris		745		Thruout	Communit y Svs.	Yes	10-07-90	No Asbestos			Severe Damage	
Basem	Frq	Giebelstadt Air	609	Pipe Insulation Debris		745		Thruout	Communit y Svs.	Yes	10-07-90	5% Amo.			Severe Damage	
Basem	Frq	Giebelstadt Air	609	Pipe Insulation Debris		745		Thruout	Communit y Svs.	Yes	10-07-90	5% Amo.			Severe Damage	
1,2		Giebelstadt Air	609	Ceiling Tile				Thruout			10-07-90	No Asbestos				
1,2		Giebelstadt Air	609	Ceiling Tile				Thruout			10-07-90	No Asbestos				
1,2		Giebelstadt Air	609	Ceiling Tile				Thruout			10-07-90	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
B,1,2	Frq	Giebelstadt Air	611	Linoleum		840	63	Thruout	Military	No	11-07-90	Assumed			damaged	
3	Frq	Giebelstadt Air	611	9"x9" Floor Tile		370	63	Thruout	Military	No	11-07-90	Assumed			damaged	
B,1,2,3	Frq	Giebelstadt Air	611	Plaster		6230	63	Thruout	Military	No	11-07-90	Assumed			damaged	
Basem	Frq	Giebelstadt Air	611	Pipe Insulation	80			Thruout	Military	Yes	11-07-90	45% Amo.-Gone				Abated
Basem	Frq	Giebelstadt Air	611	Pipe Insulation	80			Thruout	Military	Yes	11-07-90	30% Amo.-Gone				Abated
Basem	Frq	Giebelstadt Air	611	Pipe Insulation	80			Thruout	Military	Yes	11-07-90	30% Amo.-Gone				Abated
2		Giebelstadt Air	611	2'x2' Ceiling Tile				211			11-07-90	No Asbestos				
2		Giebelstadt Air	611	2'x2' Ceiling Tile				211			11-07-90	No Asbestos				
2		Giebelstadt Air	611	2'x2' Ceiling Tile				211			11-07-90	No Asbestos				
All	Frq	Giebelstadt Air	612	Plaster		4650	68	Thruout	Military	No	10-07-90	Assumed			damaged	
Attic	Frq	Giebelstadt Air	612	Linoleum		140	63	Thruout	Military	No	10-07-90	Assumed			damaged	
B,1,A	Frq	Giebelstadt Air	612	2'x2' Floor Tile		700	63	Thruout	Military	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	612	9"x9" Floor Tile		20	58	Behind Food Mal	Construction Workers	No	10-07-90	Assumed			damaged	
Basem	Occ.	Giebelstadt Air	612	12"x12" Floor Tile		55	58	Sight/Sound	Military	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	612	Sheetrock		32	53	Dry Stor	Workers	No	10-07-90	Assumed			damaged	
1	Frq	Giebelstadt Air	612	2'x4' Ceiling Tile		23	48	Behind Food Mal	Construction Workers	No	10-07-90	Assumed			UnD	
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	45% Amo.-Gone				Abated
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	45% Amo.-Gone				Abated
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	45% Amo.-Gone				Abated
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	None-Gone				Abated
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	None-Gone				Abated
Basem	Frq	Giebelstadt Air	612	Pipe Insulation		427		Thruout	Army Pers.	Yes	10-07-90	2% Amo.-Gone				Abated
1		Giebelstadt Air	612	Ceiling Tile				Food Mall/Shope			10-07-90	No Asbestos				
1		Giebelstadt Air	612	Ceiling Tile				Food Mall/Shope			10-07-90	No Asbestos				
1		Giebelstadt Air	612	Ceiling Tile				Food Mall/Shope			10-07-90	No Asbestos				
1		Giebelstadt Air	612	Ceiling Tile				Food Mall/Shope			10-07-90	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Giebelstadt Air	612	Tank Insulation				Boiler Rm			10-07-90	No Asbestos				
Basem		Giebelstadt Air	612	Tank Insulation				Boiler Rm			10-07-90	No Asbestos				
Basem		Giebelstadt Air	612	Tank Insulation				Boiler Rm			10-07-90	No Asbestos				
1		Harvey Brk	101	2'x2' Ceiling Tile				Foyer/Offices			22-06-90	No Asbestos				
1		Harvey Brk	101	2'x2' Ceiling Tile				Foyer/Offices			22-06-90	No Asbestos				
1		Harvey Brk	101	2'x2' Ceiling Tile				Foyer/Offices			22-06-90	No Asbestos				
1,3	Frq	Harvey Brk	101	9"x9" Floor Tile		111		Thruout	Office Pers.	No	22-06-90	Assumed			UnD	Abated
2		Harvey Brk	101	Pipe Insulation				206A			22-06-90	No Asbestos				
2,3	Frq	Harvey Brk	101	Sheetrock		214		Hallways	Residential	No	22-06-90	Assumed			damaged	Abated
3	Frq	Harvey Brk	101	Pipe Insulation-Preformed	420			307	Residential	Yes	22-06-90	5% Amo.			Severe Damage	Abated
3	Frq	Harvey Brk	101	Pipe Insulation-Preformed	420			3rd,Hallway	Residential	Yes	22-06-90	5% Amo.			Severe Damage	Abated
3	Frq	Harvey Brk	101	Pipe Insulation-Preformed	420			303B	Residential	Yes	22-06-90	10% Amo.			Severe Damage	Abated
1,2,3	Frq	Harvey Brk	101	Plaster		6317		All	Residential	No	22-06-90	Assumed			damaged	Abated
1,2,3	Frq	Harvey Brk	101	12"x12" Floor Tile		1189		Residential Roo	Residential	No	22-06-90	Assumed			damaged	Abated
Attic	Rar	Harvey Brk	101	Pipe Insulation-Fibrous	12			Attic, stor	Maintenance	Yes	22-06-90	98% Crocidolite			Severe Damage	Abated
Attic	Rar	Harvey Brk	101	Pipe Insulation-Fibrous	12			Attic, stor	Maintenance	Yes	22-06-90	98% Crocidolite			Severe Damage	Abated
Attic	Rar	Harvey Brk	101	Pipe Insulation-Fibrous	12			Attic, stor	Maintenance	Yes	22-06-90	98% Crocidolite			Severe Damage	Abated
Basem		Harvey Brk	101	Pipe Insulation				Boiler Rm			22-06-90	No Asbestos				
Basem		Harvey Brk	101	Pipe Insulation				Boiler Rm			22-06-90	No Asbestos				
1		Harvey Brk	102	floor tiles, 9" x 9"	NA	NA		restrooms	chapel	NA	1990	Assumed	18-06-02	removed	NA	Abated
1,2,3	Frq	Harvey Brk	103	Plaster		5112		Offices	Military	No	22-06-90	Assumed			damaged	Abated
1,2,3	Frq	Harvey Brk	103	9"x9" Floor Tile		1400		Offices	Military	No	22-06-90	Assumed			damaged	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	5% Amo.			Severe Damage	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	No Asbestos			Severe Damage	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	2% Amo.			Severe Damage	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	No Asbestos			Severe Damage	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	No Asbestos			Severe Damage	Abated
1	Rar	Harvey Brk	104	Pipe Insulation	366			Boiler Rm	Maintenance	Yes	22-06-90	No Asbestos			Severe Damage	Abated
1		Harvey Brk	104	Plaster				Boiler Rm			22-06-90	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1		Harvey Brk	104	Plaster				Boiler Rm			22-06-90	No Asbestos				
1		Harvey Brk	104	Plaster				Boiler Rm			22-06-90	No Asbestos				
1	Frq	Harvey Brk	104	linoleum floor sheeting grey		9		offices	Maintenance	no	Jul-90	Assumed	10-Dec-97	No Asbestos	light	
1	Frq	Harvey Brk	104	linoleum floor sheeting grey		9		offices	Maintenance	no	Jul-90	Assumed	10-Dec-97	No Asbestos	light	
1	Frq	Harvey Brk	104	linoleum green		9		office 1st floor	Maintenance	no	Jul-90	not identified	10-Dec-97	No Asbestos	light	
1	Frq	Harvey Brk	104	pipe insulation	365			boiler room mezzanine	Maintenance	yes	Jun-90	2% amosite	10-Dec-97	visual inspection	heavy	Abated
1		Harvey Brk	104	Interior Duct Packing		1		boiler room	Maintenance	yes	Jun-90	65% chrysotile	10-Dec-97	visual inspection		Abated
1	Frq	Harvey Brk	104	boiler packing rope	61			boiler room	Maintenance	yes	Jun-90	5% chrysotile	10-Dec-97	visual inspection	light	Abated
1		Harvey Brk	104	Interior Duct Packing		1		boiler room	Maintenance	yes	Jun-90	65% chrysotile	10-Dec-97	visual inspection		Abated
1	Frq	Harvey Brk	104	boiler packing rope	61			boiler room	Maintenance	yes	Jun-90	60% chrysotile	10-Dec-97	visual inspection	light	Abated
1	Frq	Harvey Brk	104	pipe insulation	365			boiler room mezzanine	Maintenance	yes	Jun-90	5% amosite	10-Dec-97	visual inspection	heavy	Abated
1		Harvey Brk	104	Interior Duct Packing		1		boiler room	Maintenance	yes	Jun-90	65% chrysotile	10-Dec-97	visual inspection		Abated
1		Harvey Brk	104	boiler packing rope	61			boiler room	Maintenance	yes	Jun-90	No Asbestos	10-Dec-97	visual inspection	light	Abated
Basem		Harvey Brk	104	Duct Insulation				Boiler Rm			22-06-90	No Asbestos				
Basem		Harvey Brk	104	Duct Insulation				Boiler Rm			22-06-90	No Asbestos				
Basem		Harvey Brk	104	Duct Insulation				Boiler Rm			22-06-90	No Asbestos				
1	Frq	Harvey Brk	105	floor tile, green, 2' x 2'	NA	20 m²	58	1st floor southern hall	warehouse	Nonfriable	1990	Assumed	18-06-02	<10% chrysotile	Minor damage	mastic contains also asbestos
1	Frq	Harvey Brk	105	mastic	NA	20 m²	31	1st floor southern hall	warehouse	low		not identified	18-06-02	<10% chrysotile	Minor damage	floor tile contains asbestos
2	Frq	Harvey Brk	105	floor tile, gray, 20" x 20"	NA	230 m²	58	2nd floor, southern part	warehouse	Nonfriable	1990	Assumed	18-06-02	<10% chrysotile	Minor damage	mastic negative
Basem	Rar	Harvey Brk	105	flue door gaskets	5 ea	NA	61	Basement R 001	warehouse	High		not identified	18-06-02	Assumed	UnD	---
Basem	Frq	Harvey Brk	105	flange gaskets	5 ea	NA	< 70	Basement R 002	warehouse	Moderate		not identified	18-06-02	Assumed	UnD	---
Staircase		Harvey Brk	105	sheet flooring	NA	NA	NA	Staircase	warehouse	NA	1990	Assumed	18-06-02	No Asbestos	NA	no asbestos detected
Staircase		Harvey Brk	105	floor tile, beige, 9' x 9'	NA	NA	NA	Staircase	warehouse	NA	1990	Assumed	18-06-02	No Asbestos	NA	no asbestos detected

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Harvey Brk	107	Plaster		334	58	Thruout	Military	No	27-06-90	Assumed			UnD	
1	Frq	Harvey Brk	107	12"x12" Floor Tile		255	53	Thruout	Military	No	27-06-90	Assumed			UnD	
1		Harvey Brk	107	Pipe Insulation				7			27-06-90	No Asbestos				
1		Harvey Brk	107	Pipe Insulation				2			27-06-90	No Asbestos				
1		Harvey Brk	107	Pipe Insulation				1			27-06-90	No Asbestos				
1st floor: rooms 107-114, 116, 117; 2nd floor: rooms 200, 201, 203-214, 220, 221	Frq	Harvey Brk	108	floor tile, red with white streaks, 9" x 9"	NA	1400 m²	55	1st floor: rooms 107-114, 116, 117; 2nd floor: rooms 200, 201, 203-214, 220, 221	administrative	Nonfriable	1990	Chrysotile	18-06-02	< 10 % Chrysotile	UnD	mastic contains also asbestos
1	Frq	Harvey Brk	108	black mastic	NA	1400 m²	28	1st floor: rooms 107-114, 116, 117; 2nd floor: rooms 200, 201, 203-214, 220, 221	administrative	Low		not identified	18-06-02	< 10 % Chrysotile	UnD	floor tile contains asbestos
3		Harvey Brk	108	floor tile, gray with white streaks, 50 x 50 cm	NA	NA	NA	3rd floor: hall, rooms 305, 306, 310, 310A, 312, 313, 315, 317	administrative	NA	1990	Assumed	18-06-02	No Asbestos	NA	mastic negative
Attic		Harvey Brk	108	pipe insulation	NA	NA		Attic	administrative	NA	1990	30 % Amosit	18-06-02	removed	NA	Abated
Basem		Harvey Brk	108	pipe insulation	NA	NA		Basement	administrative	NA	1990	30 % Amosit	18-06-02	removed	NA	Abated
2		Harvey Brk	109	pipe insulation	NA	NA		2nd floor: room 210	administrative	NA	1990	10-15 % Chrysotile	18-06-02	removed	NA	Abated
3	Frq	Harvey Brk	109	floor tile, red with white streaks, 9" x 9"	NA	80 m²	58	3rd floor: rooms 302, 314, 315	administrative	Nonfriable	1990	Chrysotile	18-06-02	<< 10 % Chrysotile	Minor damage	second sample negative

417th BSB Asbestos Survey																
Floor	**Use**	**Installation:**	**Bldg No.**	**Description:**	**LM**	**SM**	**ALG**	**Rm No.**	**Type of bldg.**	**Fri.**	**Date of survey:**	**Result of survey:**	**Date of resurvey**	**Result of resurvey**	**Cond.**	**Comments**
3	Frq	Harvey Brk	109	black mastic	NA	80 m²	28	3rd floor: rooms 302, 314, 315	administrative	Low		not identified	18-06-02	Chrysotile	UnD	second sample negative
Attic		Harvey Brk	109	pipe insulation	NA	NA		Attic, northern end	administrative	NA	1990	15 % Chrysotile	18-06-02	removed	NA	Abated
Basem	Frq	Harvey Brk	109	flange gaskets	5 ea	5 ea	< 70	Basement: room 003A, headroom	administrative	moderate		not identified	18-06-02	Assumed	UnD	---
Basem		Harvey Brk	109	pipe insulation	NA	NA		Basement: room 3 (storage)	administrative	NA	1996	10 % Amosite	18-06-02	removed	NA	Abated
1	Frq	Harvey Brk	110	fire doors	3 ea	3 ea	< 70	1st floor	communications	enclosed		not identified	20-06-02	Assumed	UnD	---
1		Harvey Brk	110	floor tiles, brown with white streaks, 28 x 28cm	NA	NA	NA	1st floor: offices 3 - 6, hallway	communications	NA	1990	Assumed	20-06-02	No Asbestos	NA	no asbestos detected
1		Harvey Brk	110	floor tiles, brown with white streaks, 28 x 28cm	NA	NA	NA	1st floor: offices 3 - 6, hallway	communications	NA	1990	Assumed	20-06-02	No Asbestos	NA	no asbestos detected
roof		Harvey Brk	110	asbestos-cement panels	NA	10 m²	16	roof	communications	Nonfriable	1990	Chrysotile	18-06-02	< 10 % Chrysotile	Severe damage	no asbestos detected
1	Frq	Harvey Brk	113	Fire doors	7 ea	NA	< 70	1st floor kitchen	administrative	Enclosed		not identified	18-06-02	Assumed	UnD	---
2		Harvey Brk	113	12" x 12" gray floor tile with black and white streaks	NA	NA	NA	Room 210 - (Conference Room)	administrative	NA	1990	Assumed	18/06/02	No Asbestos	NA	no asbestos detected
2		Harvey Brk	113	9" x 9" gray floor tile with black and white streaks	NA	15 m²	NA	Hallway (Section C)	administrative	NA		not identified	18/06/02	No Asbestos	NA	mastic contains also asbestos
2	Frq	Harvey Brk	113	Black mastic	NA	15 m²	28	Hallway (Section C)	administrative	Low		not identified	18/06/02	<10% Chrysotile	UnD	floor tile contains asbestos
2	Frq	Harvey Brk	113	fiber-cement toilet partitions	NA	8 m²	55	2nd floor latrine (Section C)	administrative	Nonfriable		not identified	18-06-02	Assumed	UnD	---
2	Frq	Harvey Brk	113	9" x 9" red floor tile with white streaks	NA	125 m²	55	2nd floor: hall (section B) and offices (section C)	administrative	Nonfriable		not identified	18/06/02	10% Chrysotile	UnD	mastic contains also asbestos

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
2	Frq	Harvey Brk	113	mastic, black	NA	125 m²	28	2nd floor: hall (section B) and offices (section C)	administrative	Low		not identified	18/06/02	<10% Chrysotile	UnD	floor tile contains asbestos
Basem	Occ.	Harvey Brk	113	Boiler Gasket	1 ea	NA	68	Boiler Room	administrative	high		not identified	18/06/02	>90% Chrysotile	UnD	---
Basem	Occ.	Harvey Brk	113	Flange gaskets	100 ea	NA	< 70	Basement, boiler rooms (Section C)	administrative	Low		not identified	18-06-02	Assumed	UnD	---
1, 2, 3	Frq	Harvey Brk	114	9" x 9" red floor tile with white streaks	NA	2,500 m²	58	1st, 2nd, 3rd floor of Wing B	administrative	Nonfriable	1990	Chrysotile	17/06/02	<10% Chrysotile	Minor damage	mastic contains also asbestos
1, 2, 3	Frq	Harvey Brk	114	Black mastic	NA	2,500 m²	60	1st, 2nd, 3rd floor of Wing B	administrative	Low		not identified	17/06/02	<10% Chrysotile	Minor damage	floor tile contains asbestos
3	Frq	Harvey Brk	114	12" x 12" gray floor tiles with white streaks	NA	8 m²	55	Stair landing 3B	administrative	Nonfriable	1990	Assumed	17/06/02	<10% Chrysotile	UnD	mastic contains also asbestos
3	Frq	Harvey Brk	114	Black mastic	NA	8 m²	28	Stair landing 3B	administrative	Low		not identified	17/06/02	<10% Chrysotile	UnD	floor tile contains asbestos
3		Harvey Brk	114	White wall plaster	4 ea	NA	NA	Throughout structure	administrative	NA	1990	Assumed	17/06/02	No Asbestos	NA	---
3	Frq	Harvey Brk	114	8" x 8"red floor tile	NA	30 m²	55	3rd floor, dayroom (308)	administrative	Nonfriable	1994	15% Chrysotile	17-06-02	15% Chrysotile	UnD	---
1	Frq	Harvey Brk	115	Fire doors	2 ea	NA	< 70	Basement, 1st floor	administrative	Enclosed		not identified	17-06-02	Assumed	UnD	---
1	Occ.	Harvey Brk	115	Flange gaskets	100 ea	NA	< 70	Room 117 (mechanical)	administrative	Low		not identified	17-06-02	Assumed	UnD	---
Exterior		Harvey Brk	117	Fire doors	2 ea	NA	< 70	Exterior	administrative	Enclosed		not identified	18-06-02	Assumed	UnD	---
Room 116A (heating)	Frq	Harvey Brk	117	Flange gaskets	100 ea	NA	< 70	Room 116A (heating)	administrative	Low		not identified	18-06-02	Assumed	UnD	---
1,A	Frq	Harvey Brk	119	9"x9" Floor Tile		1348	63	Thruout	Hsg	No	25-06-90	Assumed			damaged	
Attic	Frq	Harvey Brk	119	12"x12" Floor Tile		125	68	Day Rm	Hsg	No	25-06-90	Assumed			damaged	
Attic	Occ.	Harvey Brk	119	Sheetrock		12	48	308C, Day Rm	Hsg	No	25-06-90	Assumed			UnD	
All	Frq	Harvey Brk	119	Plaster		3300	68	All	Hsg	No	25-06-90	Assumed			damaged	
Basem	Rar	Harvey Brk	119	Pipe Insulation	284			Tunnel	Hsg	Yes	25-06-90	No Asbestos			damaged	Abated
Basem	Rar	Harvey Brk	119	Pipe Insulation	284			Tunnel	Hsg	Yes	25-06-90	Trace			damaged	Abated
Basem	Rar	Harvey Brk	119	Pipe Insulation	284			Tunnel	Hsg	Yes	25-06-90	2% Chrys.			damaged	Abated
Basem		Harvey Brk	119	Pipe Insulation				Tunnel			25-06-90	No Asbestos				

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Harvey Brk	119	Pipe Insulation				Tunnel			25-06-90	No Asbestos				
Basem		Harvey Brk	119	Pipe Insulation				Tunnel			25-06-90	No Asbestos				
1		Harvey Brk	121	pipe insulation	244			Tunnel around perimeter of building	Housing	yes	Jun-90	2% amosite	09-Dec-97	visual inspection		Abated
1		Harvey Brk	121	pipe insulation	244			Tunnel around perimeter of building	Housing	yes	Jun-90	2% amosite	09-Dec-97	visual inspection		Abated
1		Harvey Brk	121	pipe insulation	244			Tunnel around perimeter of building	Housing	yes	Jun-90	2% amosite	09-Dec-97	visual inspection		Abated
1.3		Harvey Brk	121	12" x 12" floor tiles red		30		rooms 112, 307	Housing	no	Jun-90	Assumed	09-Dec-97	visual inspection		Abated
1,2,3	Frq	Harvey Brk	121	9" x 9" floor tiles red		1030	63	1st,2nd,3rd floor	Housing	no	Jun-90	Assumed	09-Dec-97	tile:10% chrysotile; mastic:7% chrysotile	light	
1,2,3	Frq	Harvey Brk	121	9" x 9" floor tiles red		1030	63	1st,2nd,3rd floor	Housing	no	Jun-90	Assumed	09-Dec-97	tile:10% chrysotile; mastic:10% chrysotile	light	
1,2,3	Frq	Harvey Brk	121	9" x 9" floor tiles red		1030	63	1st,2nd,3rd floor	Housing	no	Jun-90	Assumed	09-Dec-97	(QC) 5% chrysotile	light	dupl. of HA-121-01-04
1,2,3	Frq	Harvey Brk	121	9" x 9" floor tiles red		1030	63	1st,2nd,3rd floor	Housing	no	Jun-90	Assumed	09-Dec-97	tile:10% chrysotile; mastic: 16% chrysotile	light	
Attic	Frq	Harvey Brk	121	wallplaster		1400		attic storage room (310)	Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	heavy	
Attic	Frq	Harvey Brk	121	wallplaster		1400		attic storage room (310)	Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	heavy	
Attic	Frq	Harvey Brk	121	wallplaster		1400		attic storage room (310)	Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	heavy	
1		Harvey Brk	122	9" x 9" gray floor tile with black and white streaks	NA	NA	NA	Stairwell	administrative	NA	1990	Assumed	17/06/02	No Asbestos	NA	mastic negative
1	Frq	Harvey Brk	122	9" x 9" black floor tile with white streaks	NA	70 m²	55	Office 107, Office 108, Storage 113 and Storage 114A	administrative	Nonfriable	1990	Assumed	18/06/02	<10% Chrysotile	UnD	mastic negative

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Harvey Brk	122	9" x 9" green floor tile with white streaks	NA	50 m²	55	Office 104, Office 103 and Office 109	administrative	Nonfriable	1990	Assumed	18/06/02	<10% Chrysotile	UnD	mastic contains also asbestos
1	Frq	Harvey Brk	122	Black mastic	NA	50 m²	28	Office 104, Office 103 and Office 109	administrative	Low		not identified	18/06/02	Chrysotile	UnD	floor tile contains asbestos
Basem	Frq	Harvey Brk	122	Fire doors	5 ea	NA	< 70	Basement, 1st floor	administrative	Enclosed		not identified	18-06-02	Assumed	UnD	---
1,2,3	Frq	Harvey Brk	123	9"x9" Floor Tile		2300	63	Dorm Rms	Pers.	No	25-06-90	Assumed			damaged	
All	Frq	Harvey Brk	123	Plaster		4185	68	Thruout	Pers.	No	25-06-90	Assumed			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	15-01-95	No Asbestos			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	16-01-95	No Asbestos			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	17-01-95	No Asbestos			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	18-01-95	No Asbestos			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	19-01-95	No Asbestos			damaged	
B,3	Frq	Harvey Brk	123	Pipe Insulation	1676			Various	Pers.	Yes	20-01-95	No Asbestos			damaged	
1	Rar	Harvey Brk	124	9" x 9" floor tiles green		125		Block A	Housing	no	Jun-90	Assumed	11-Dec-97	tile: 4% chrysotile; mastic: ND	light	Abated
1	Rar	Harvey Brk	124	9" x 9" floor tiles green		125		Block A	Housing	no	Jun-90	Assumed	11-Dec-97	(QC) tile: 2% chrysotile; mastic: 5% chrysotile	light	Abated
1	Rar	Harvey Brk	124	9" x 9" floor tiles green		125		Block A	Housing	no	Jun-90	Assumed	11-Dec-97	Tile: 3% chrysotile; mastic: ND	light	Abated
1	Rar	Harvey Brk	124	9" x 9" floor tiles green		125		Block A	Housing	no	Jun-90	Assumed	11-Dec-97	No Asbestos	light	Abated
3	Frq	Harvey Brk	124	Pipe Insulation				3rd flr	Ofc	No	12-08-94	No Asbestos			damaged	
3	Frq	Harvey Brk	124	wallplaster		936		3rd floor hallway (opposite R. 326)	Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	light	
3	Frq	Harvey Brk	124	wallplaster		936		3rd floor hallway (opposite R. 326)	Housing	no	Jun-90	Assumed	09-Dec-97	(QC) No Asbestos	light	dupl. of HA-124-02-04
3	Frq	Harvey Brk	124	wallplaster		936		3rd floor hallway (opposite R. 326)	Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	light	

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3	Frq	Harvey Brk	124	3rd floor hallway (opposite R. 326) wallplaster		936			Housing	no	Jun-90	Assumed	09-Dec-97	No Asbestos	light	
1,A	Frq	Harvey Brk	124	Sheetrock		230	58	Thruout	Hsg	No	26-06-90	Assumed			damaged	
1,A	Frq	Harvey Brk	124	Sheetrock Joint Compound		23		Thruout	Hsg	No	26-06-90	Assumed			UnD	Abated
all	Frq	Harvey Brk	124	12" x 12" floor tiles red		3039		Throughout	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:4% chrysotile; Mastic: 12% chrysotile	light	Abated
all	Frq	Harvey Brk	124	12" x 12" floor tiles red		3039		Throughout	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:4% chrysotile; Mastic: 10% chrysotile	light	Abated
all	Frq	Harvey Brk	124	12" x 12" floor tiles red		3039		Throughout	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:4% chrysotile; Mastic: 12% chrysotile	light	Abated
Attic	Frq	Harvey Brk	124	9" x 9" floor tiles grey		329		attic	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:ND; mastic: ND	light	
Attic	Frq	Harvey Brk	124	9" x 9" floor tiles grey		329		attic	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:ND; mastic: ND	light	
Attic	Frq	Harvey Brk	124	9" x 9" floor tiles grey		329		attic	Housing	no	Jun-90	Assumed	09-Dec-97	Tile:ND; mastic: ND	light	
Attic	Frq	Harvey Brk	124	pipe insulation	305			hallway	Housing	yes	Jun-90	not identified	09-Dec-97	No Asbestos	light	
Attic	Frq	Harvey Brk	124	pipe insulation	305			hallway	Housing	yes	Jun-90	not identified	09-Dec-97	No Asbestos	light	
Attic	Frq	Harvey Brk	124	pipe insulation	305			hallway	Housing	yes	Jun-90	not identified	09-Dec-97	No Asbestos	light	
Attic		Harvey Brk	124	pipe insulation	300			attic	Housing	yes	Jan-95	2% chrysotile	11-Dec-97	visual inspection	light	Abated
Attic		Harvey Brk	124	pipe insulation	300			attic	Housing	yes	Jan-95	2% chrysotile	11-Dec-97	visual inspection	light	Abated
Attic		Harvey Brk	124	pipe insulation	300			attic	Housing	yes	Jan-95	2% chrysotile	11-Dec-97	visual inspection	light	Abated
Basem		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				
Basem		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				
Basem		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				
Basem	Frq	Harvey Brk	124	pipe insulation	500			basement	Housing	yes	Jun-90	No Asbestos	11-Dec-97	No Asbestos	heavy	
Basem	Frq	Harvey Brk	124	pipe insulation	500			basement	Housing	yes	Jun-90	No Asbestos	11-Dec-97	No Asbestos	heavy	
Basem	Frq	Harvey Brk	124	pipe insulation	500			basement	Housing	yes	Jun-90	No Asbestos	11-Dec-97	No Asbestos	heavy	
B,A		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				
B,A		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				
B,A		Harvey Brk	124	Pipe Insulation				Bsmt			26-06-90	No Asbestos				

417th BSB Asbestos Survey																
Floor	**Use**	**Installation:**	**Bldg No.**	**Description:**	**LM**	**SM**	**ALG**	**Rm No.**	**Type of bldg.**	**Fri.**	**Date of survey:**	**Result of survey:**	**Date of resurvey**	**Result of resurvey**	**Cond.**	**Comments**
1		Harvey Brk	128	floor tile, beige with white streaks, 29 x 29 cm	NA	NA		1st floor: rooms 106, 107	warehouse	NA	1990	Assumed	18-06-02	No Asbestos	NA	no asbestos detected
boiler hall	Occ.	Harvey Brk	129	pipe insulation (red, mud-like)	20 lm	NA		boiler hall	utilities	high		No Asbestos	19-06-02	Assumed	significant damage	not accessible
boiler hall	Occ.	Harvey Brk	129	flange gaskets	20 ea	NA		boiler hall	utilities	moderate		No Asbestos	19-06-02	Assumed	UnD	---
boiler hall		Harvey Brk	129	boiler rope gaskets	NA	NA		boiler hall	utilities	NA	1990	50 % Chrysotile	19-06-02	removed	NA	Abated
Basement		Harvey Brk	130	pipe insulation	NA	NA		Basement	mil. Sale	NA	1990	2 % Chrysotile	25-06-02	removed	NA	Abated
Basem		Harvey Brk	130	floor tile, 12" x 12"	NA	NA		Basement: Class room	mil. Sale	NA	1990	Assumed	25-06-02	removed	NA	Abated
Basem	Occ.	Harvey Brk	130	flange gaskets	3 ea	NA	< 70	Basement: mechanical room	mil. Sale	moderate		not identified	25-06-02	Assumed	UnD	---
Basem		Harvey Brk	130	floor tile, 9" x 9"	NA	NA		Basement: Office	mil. Sale	NA	1990	Assumed	25-06-02	removed	NA	Abated
1	Frq	Harvey Brk	132	flange gaskets	30 ea	NA	< 70	1st floor, room 111A (heating room)	warehouse	moderate		not identified	19-06-02	Assumed	UnD	---
1		Harvey Brk	133	floor tiles, beige with black streaks, 28 x 28cm	NA	NA		1st floor: office 101	warehouse	NA	1990	Assumed	19-06-02	No Asbestos	NA	mastic negative
1	Frq	Harvey Brk	133	flange gaskets	8 ea	NA		1st floor: room 114 (storage)	warehouse	moderate		No Asbestos	19-06-02	Assumed	UnD	---
1		Harvey Brk	133	pipe insulation	NA	NA		1st floor: warehouse	warehouse	NA	1990	2 % Chrysotile	19-06-02	removed	NA	Abated
1		Harvey Brk	133	9" x 9" floor tiles	NA	NA		1st floor: warehouse office	warehouse	NA	1990	Assumed	19-06-02	removed	NA	Abated
1		Harvey Brk	134	floor tiles, beige with white/brown streaks, 28 x 28cm	NA	NA		1st floor: offices 108, 109	administrative	NA	1990	Assumed	19-06-02	No Asbestos	NA	no asbestos detected

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1		Harvey Brk	134	pipe insulation	NA	NA		1st floor: storage A, B	administrative	NA	1990	2 - 10 % Chrysotile / Amosite	19-06-02	removed	NA	Abated
1	Occ.	Harvey Brk	134	flange gaskets	10 ea	NA	< 70	1st floor: heating room	administrative	moderate		not identified	19-06-02	Assumed	UnD	---
2		Harvey Brk	134	floor tiles, beige with brown streaks, 28 x 28cm	NA	NA		2nd floor: offices 202, 203	administrative	NA	1990	Assumed	19-06-02	No Asbestos	NA	no asbestos detected
1		Harvey Brk	138	floor tiles, beige with black streaks, 50 x 50cm	NA	NA		Wing E: 1st floor: Baber Shop (room 101, 305, hall)	administrative	NA	1990	Assumed	18-06-02	No Asbestos	NA	mastic negative
Exterior, shed		Harvey Brk	138	asbestos-cement panels	NA	15 m²	13	Exterior, shed	administrative	nonfriable		not identified	19-06-02	< 10 % Chrysotile	minor damage	---
Wing A: roof	Frq	Harvey Brk	138	black cementitious shingles	NA	600 m²	13	Wing A: roof	administrative	nonfriable		not identified	19-06-02	Assumed	UnD	---
1		Harvey Brk	138	vinyl roll flooring, gray	NA	NA		Wing B: 1st - 3rd floor, staircase	administrative	NA	1990	Assumed	19-06-02	No Asbestos	NA	---
2	Frq	Harvey Brk	138	black mastic	NA	170 m²	28	Wing B: 2nd floor, rooms 204, 208, hall	administrative	low		not identified	19-06-02	<< 10 % Chrysotile	UnD	---
3	Frq	Harvey Brk	138	floor tiles, gray with black streaks, 9" x 9"	NA	30 m²	55	Wing B: 3rd floor, hallway	administrative	nonfriable		not identified	19-06-02	< 10 % Chrysotile	UnD	no asbestos detected
3	Frq	Harvey Brk	138	black mastic	NA	30 m²	28	Wing B: 3rd floor, hallway	administrative	low		not identified	19-06-02	Chrysotile traces	UnD	---
1	by Athlets	Harvey Brk	138	flange gaskets	20 ea	NA	< 70	Wing C: 1st floor: gymnasium	administrative	moderate		not identified	19-06-02	Assumed	UnD	---
2	by children	Harvey Brk	138	acoustic wall tiles, regular holes, white	NA	200 m²		Wing C: 2nd floor, Room 211, 227	administrative	moderate		not identified	19-06-02	> 10 % Chrysotile	UnD	Abated
2	Frq	Harvey Brk	138	brown mastic	NA	60 m²	28	Wing C: 2nd floor: Room 211	administrative	low		not identified	19-06-02	<< 10 % Amphibole	UnD	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1		Harvey Brk	138	floor tiles, beige, 12" x 12"	NA	NA		Wing E: 1st floor, room 109	administrative	NA	1990	Assumed	19-06-02	No Asbestos	NA	mastic negative
2	Frq	Harvey Brk	138	floor tiles, beige with black streaks, 9" x 9"	NA	65 m²	55	Wing E: 2nd + 3rd floor: hall	administrative	nonfriable	1990	Chrysotile	18-06-02	< 10 % Chrysotile	UnD	mastic negative
1	Frq	Harvey Brk	139	Plaster		250	58	Thruout	Military	No	26-06-90	Assumed			UnD	
1	Frq	Harvey Brk	139	20"x20" Floor Tile		110	53	Thruout	Military	No	26-06-90	Assumed			UnD	
1		Harvey Brk	139	20"x20" Ceiling Tile				Thruout			26-06-90	No Asbestos				
1		Harvey Brk	139	20"x20" Ceiling Tile				Thruout			26-06-90	No Asbestos				
1		Harvey Brk	139	20"x20" Ceiling Tile				Thruout			26-06-90	No Asbestos				
1		Harvey Brk	140	floor tiles, lightgray with white streaks, 36 x 36cm	NA	NA		1st floor: breakroom 107, room 106	storage	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
1	Frq	Harvey Brk	140	floor tiles, light brown with black streaks, 30 x 30cm	NA	40 m²	55	1st floor: storage 116	storage	nonfriable	1990	Assumed	20-06-02	< 10 % Chrysotile	UnD	mastic negative
1		Harvey Brk	140	floor tiles, white with blue/green spots, 30 x 30cm	NA	NA		1st floor: storage 118, storage 115, sales area 117	storage	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
Attic		Harvey Brk	141	pipe insulation	NA	NA		Attic	police / fire department	NA	1990	Chrysotile	21-06-02	removed	NA	Abated
Basem		Harvey Brk	141	pipe insulation	NA	NA		Basement	police / fire department	NA	1990	Chrysotile	21-06-02	removed	NA	Abated
B, A	Frq	Harvey Brk	141	fire door	5 ea	NA	< 70	Basement/ attic	police / fire department	enclosed		not identified	21-06-02	Assumed	UnD	---
1	Frq	Harvey Brk	141	floor tiles, green with white streaks, 9" x 9"	NA	70 m²	55	Wing A: 1st floor: room 110 A+B; Wing B: 1st floor, rooms 120, 121, 126AB	police / fire department	nonfriable	1997	Chrysotile	21-06-02	< 10 % Chrysotile	UnD	mastic negative
1	Frq	Harvey Brk	141	black cement-like window sills	2 ea	NA	55	Wing A: 1st floor: room 113, 113A	police / fire department	nonfriable		not identified	21-06-02	Assumed	UnD	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
2	Frq	Harvey Brk	141	mastic underneath floor tiles, pink with white streaks, 9" x 9"	NA	25 m²	31	Wing A: 2nd floor: room 218	police / fire department	low		not identified	21-06-02	Chrysotile	minor damage	original sample negative
2	Frq	Harvey Brk	141	floor tiles, red with white spots, 12" x 12"	NA	210 m²	55	Wing A: 2nd floor: rooms 201 - 203, 207, 209, 213, 218	police / fire department	nonfriable	1990	Assumed	21-06-02	< 10 % Chrysotile	UnD	mastic contains also asbestos
2	Frq	Harvey Brk	141	black mastic	NA	210 m²	28	Wing A: 2nd floor: rooms 201 - 203, 207, 209, 213, 218	police / fire department	low		not identified	21-06-02	< 10 % Chrysotile	UnD	floor tile contains asbestos
1	Frq	Harvey Brk	141	pipe insulation; blue paint, canvas, brown mud packing)	50 lm	NA		Wing B: 1st floor, room 120, 122,	police / fire department	high		not identified	21-06-02	> 10 % Amphibole	Significant damage	Abated
1	Frq	Harvey Brk	141	partition wall, gray cement-like	NA	5 m²	58	Wing B: 1st floor: Latrine	police / fire department	nonfriable		not identified	21-06-02	> 10 % Chrysotile	minor damage	---
2	Frq	Harvey Brk	141	floor tiles, gray with black streaks, 9" x 9"	NA	370 m²	61	Wing C: 2nd floor: office 201, 202, 204, 206-208, 210-214	police / fire department	nonfriable		not identified	21-06-02	< 10 % Chrystoile	Significant damage	mastic contains also asbestos
2	Frq	Harvey Brk	141	black mastic	NA	370 m²	45	Wing C: 2nd floor: office 201, 202, 204, 206-208, 210-214	police / fire department	low		not identified	21-06-02	< 10 % Chrystoile	Significant damage	floor tile contains asbestos
1		Harvey Brk	142	vinyl roll flooring, red	NA	NA		1st floor: room 107	administrative	NA	1990	Assumed	24-06-02	No Asbestos	NA	mastic negative
1	Frq	Harvey Brk	142	floor tiles, black with white streaks, 9" x 9"	NA	70 m²	55	1st floor: room 112, 113	administrative	nonfriable	1990	Chrysotile	24-06-02	< 10 % Chrysotile	UnD	mastic negative
2	Frq	Harvey Brk	142	floor tiles, gray with white streaks, 50 x 50cm	NA	100 m²	58	2nd floor: office 202, 212, 213, 216	administrative	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	minor damage	mastic negative
2	Frq	Harvey Brk	142	floor tiles, green with white streaks, 50 x 50 cm	NA	150 m²	58	2nd floor: office 205-210, hallway	administrative	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	minor damage	mastic negative
Basem	Frq	Harvey Brk	142	fire door	1 ea	NA	< 70	Basement	administrative	enclosed		not identified	21-06-02	Assumed	UnD	---
1		Harvey Brk	143	floor tiles, beige, 12" x 12"	NA	5 m²		1st floor: Entry	administrative	NA	1990	Assumed	24-06-02	No Asbestos	beneath linoleum	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Harvey Brk	143	black mastic	NA	5 m²	28	1st floor: Entry	administrative	low		not identified	24-06-02	< 10 % Chrysotile	beneath linoleum	---
1	Frq	Harvey Brk	143	floor tiles, black, 12" x 12"	NA	5 m²	55	1st floor: Entry	administrative	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	beneath linoleum	mastic contains also asbestos
1	Frq	Harvey Brk	143	black mastic	NA	5 m²	28	1st floor: Entry	administrative	low		not identified	24-06-02	< 10 % Chrysotile	beneath linoleum	floor tile contains asbestos
1	Frq	Harvey Brk	143	floor tiles, brown, 12" x 12"	NA	60 m²	55	1st floor: Hall	administrative	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	beneath carpet	mastic contains also asbestos
1	Frq	Harvey Brk	143	black mastic	NA	60 m²	28	1st floor: Hall	administrative	low		not identified	24-06-02	< 10 % Chrysotile	beneath carpet	floor tile contains asbestos
2		Harvey Brk	143	stucco at wall	NA	NA		2nd floor: office 201, 202, 204, 205	administrative	NA	1990	Assumed	24-06-02	No Asbestos	NA	no asbestos detected
1	Frq	Harvey Brk	144	fire door	2 ea	NA	< 70	1st floor	maintenance	enclosed		not identified	21-06-02	Assumed	UnD	---
Exterior		Harvey Brk	144	ashtray (cementitious)	1 ea	NA	13	Exterior	maintenance	nonfriable		not identified	21-06-02	Assumed	minor damage	---
1	Frq	Harvey Brk	144	floor tiles, brown with white streaks, 9" x 9"	NA	30 m²	58	Wing A: 1st floor: room 108	maintenance	nonfriable		not identified	24-06-02	< 10 % Chrysotile	minor damage	mastic contains also asbestos
1	Frq	Harvey Brk	144	black mastic	NA	30 m²	31	Wing A: 1st floor: room 108	maintenance	nonfriable		not identified	24-06-02	< 10 % Chrysotile	minor damage	floor tile contains asbestos
2		Harvey Brk	144	floor tiles, lightbrown with black streaks, 12" x 12"	NA	NA		Wing A: 2nd floor: hall; Wing C: 2nd floor: hall, room 208	maintenance	NA	1990	Assumed	24-06-02	No Asbestos	NA	no asbestos detected
2		Harvey Brk	144	suspended ceiling tiles, white, longish holes, 30 x 30cm	NA	NA		Wing A: 2nd floor: room 201	maintenance	NA	1990	Assumed	24-06-02	No Asbestos	NA	no asbestos detected
2	Frq	Harvey Brk	144	floor tiles, green with white streaks, 9" x 9"	NA	20 m²	58	Wing A: 2nd floor: room 203, 207	maintenance	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	minor damage	mastic contains also asbestos
2	Frq	Harvey Brk	144	mastic	NA	20 m²	31	Wing A: 2nd floor: room 203, 207	maintenance	low		not identified	24-06-02	< 10 % Chrysotile	minor damage	floor tile contains asbestos
2		Harvey Brk	144	floor tiles, beige with brown streaks, 12" x 12"	NA	NA		Wing A: 2nd floor: rooms 201-203	maintenance	NA	1990	Assumed	24-06-02	No Asbestos	NA	no asbestos detected
1	Occ.	Harvey Brk	144	pipe insulation			90>	room in carp. shop	maintenance	friable		positive			Significant damage	Room closed

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq.	Harvey Brk	144	pipe insulation				all other shops	maintenance			negative	05-08-03	negative	UnD	
1	Frq	Harvey Brk	145	12" x 12" floor tile		680		1st floor throughout	Military	no	Jun-90	Assumed	16-Dec-97	visual inspection	UnD	Abated
1	Frq	Harvey Brk	145	9" x 9" floor tile		7		2 nd floor hallway	Military	no	Jun-90	Assumed	16-Dec-97	visual inspection	UnD	Abated
1	Frq	Harvey Brk	145	linoleum		46		stairwells	Military	no	Jun-90	Assumed	16-Dec-97	visual inspection	UnD	Abated
Basem	Rar	Harvey Brk	145	pipe insulation brown	70			basement	Military	yes	Dec-94	30% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation white	15			basement	Military	yes	Dec-94	2% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation brown	70			basement	Military	yes	Dec-94	30% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation brown	70			basement	Military	yes	Dec-94	10% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation white	15			basement	Military	yes	Dec-94	3% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation white	15			basement	Military	yes	Dec-94	2% amosite	16-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	145	pipe insulation white	15			basement	Military	yes	Dec-94	2% amosite	16-Dec-97	visual inspection	light	Abated
B,1,2	Frq	Harvey Brk	145	Plaster		2253	68	Thruout	Military	No	27-06-90	Assumed			damaged	
Basem	Occ.	Harvey Brk	146	fire door	1 ea	NA	< 70	basement: heating room	medical	moderate		not identified	24-06-02	Assumed	UnD	---
Basem	Frq	Harvey Brk	146	flange gaskets	20 ea	NA	< 70	basement: heating room	medical	moderate		not identified	24-06-02	Assumed	UnD	---
1	Frq	Harvey Brk	147	floor tiles, green with white streaks, 9" x 9"	NA	7 m²	61	1st floor: room 101	maintenance	nonfriable	1990	Assumed	24-06-02	< 10 % Chrysotile	Significant damage	mastic contains also asbestos
1	Frq	Harvey Brk	147	mastic	NA	7 m²	70	1st floor: room 101	maintenance	low		not identified	24-06-02	Chrysotile traces	Significant damage	floor tile contains asbestos
1	Frq	Harvey Brk	148	Sheetrock		107	53	Thruout	Mechanic	No	27-06-90	Assumed			UnD	
1	Frq	Harvey Brk	150	Plaster		5	68	Office	Dispatch Clerk	No	28-06-90	Assumed			damaged	
1	Frq	Harvey Brk	150	Sheetrock		55	63	Office	Dispatch Clerk	No	28-06-90	Assumed			damaged	
1	Frq	Harvey Brk	150	9"x9" Floor Tile		30	63	Office	Dispatch Clerk	No	28-06-90	Assumed			damaged	
Exterior: shed roof and behind garage		Harvey Brk	152	asbestos-cement roofing panels	NA	15 m²	16	Exterior: shed roof and behind garage	maintenance	nonfriable		not identified	24-06-02	< 10 % Chrysotile	significant damage	---
Mechanical room (107)	Occ.	Harvey Brk	152	flange gaskets	20 ea	NA	< 70	Mechanical room (107)	maintenance	moderate		not identified	24-06-02	Assumed	minor damage	---
throughout		Harvey Brk	154	floor tiles; 9" x 9"; 12" x 12", 18" x 18"	NA	NA		throughout	administrative	NA	1990	Assumed	24-06-02	removed	NA	Abated

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1st floor auditorium	by children	Harvey Brk	155	ceiling tiles	NA	300 m²	66	1st floor auditorium	theater	low	1990	Assumed	25-06-02	Assumed	UnD	---
1st floor: auditorium; 2nd floor: offices 101-102, hall		Harvey Brk	155	acoustic wall tiles	NA	NA		1st floor: auditorium; 2nd floor: offices 101-102, hall	theater	NA	1990	Assumed	25-06-02	No Asbestos	NA	no asbestos detected
Basem	Occ.	Harvey Brk	155	flange gaskets	40 ea	NA	< 70	Basement: R. 001 (heat exchanger)	theater	moderate		not identified	25-06-02	Assumed	UnD	---
Basem	Frq	Harvey Brk	155	fire door	1 ea	NA	< 70	Basement: R. 001 (heat exchanger)	theater	enclosed		not identified	25-06-02	Assumed	UnD	---
throughout		Harvey Brk	155	vinyl roll flooring, brown with white/black streaks	NA	NA		throughout	theater	NA	1990	Assumed	25-06-02	No Asbestos	NA	no asbestos detected
2		Harvey Brk	155	stucco	NA	NA		throughout 2nd floor	theater	NA	1990	Assumed	25-06-02	No Asbestos	NA	no asbestos detected
1		Harvey Brk	156	floor tiles, beige, 2' x 2'	NA	NA		1st floor: room 101-103	administrative	NA	1990	Assumed	25-06-02	No Asbestos	NA	no asbestos detected
stairwell		Harvey Brk	156	floor tiles 9" x9"	NA	NA		stairwell	administrative	NA	1990	Assumed	25-06-02	Assumed	NA	Abated
1	Frq	Harvey Brk	157	Plaster		32	68	Guard Shack	Guards	No	27-06-90	Assumed			damaged	
Room 115	Frq	Harvey Brk	159	flange gaskets	7 ea	NA	< 70	Room 115	maintenance	moderate		not identified	27-06-02	Assumed	UnD	---
1		Harvey Brk	160	drywall	NA	NA		1st floor: breakroom, office 101	warehouse	NA	1990	Assumed	25-06-02	No Asbestos	NA	no asbestos detected
1	Frq	Harvey Brk	160	floor tiles, green with white streaks, 9" x 9"	NA	450 m²	61	1st floor: rooms 101, 103, 104-108, hall, breakroom	warehouse	nonfriable	1990	Assumed	25-06-02	< 10 % Chrysotile	Significant damage	mastic contains also asbestos
1	Frq	Harvey Brk	160	black mastic	NA	450 m²	70	1st floor: rooms 101, 103, 104-108, hall, breakroom	warehouse	low		not identified	25-06-02	< 10 % Chrysotile	Significant damage	floor tile contains asbestos
B,1	Occ.	Harvey Brk	161	Pipe Insulation				Various	Motor Pool	Yes	24-07-95	No Asbestos			damaged	
B,1	Occ.	Harvey Brk	161	Pipe Insulation				Various	Motor Pool	Yes	24-07-95	No Asbestos			damaged	
B,1	Occ.	Harvey Brk	161	Pipe Insulation				Various	Motor Pool	Yes	24-07-95	No Asbestos			damaged	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
heating room		Harvey Brk	164	pipe insulation	NA	NA		heating room	maintenance	NA	1990	10% Amosite	25-06-02	removed	NA	Abated
heating room	Occ.	Harvey Brk	164	flange gaskets	10 ea	NA	< 70	heating room	maintenance	moderate		not identified	25-06-02	Assumed	UnD	---
1		Harvey Brk	166	floor tiles, beige with white/brown streaks, 50 x 50cm	NA	220 m²		1st floor: western hall, rooms 109, 113-115; Basement: rooms 003, 012, 015, western hall	guesthouse	NA	1990	Assumed	22-06-02	No Asbestos	NA	no asbestos detected
1	Frq	Harvey Brk	166	mastic	NA	220 m²	70	1st floor: western hall, rooms 109, 113-115; Basement: rooms 003, 012, 015, western hall	guesthouse	low		not identified	22-06-02	<< 10 % Chrysotile	local significant damage	---
Attic		Harvey Brk	166	pipe insulation	NA	NA		Attic	guesthouse	NA	1990	10-20% Amosite	20-06-02	removed	NA	Abated
Basem	Rar	Harvey Brk	166	debris from insulation material (plaster, cardboard, mineral fibers)	NA	10 m²	79	Basement: pipe tunnel	guesthouse	high		not identified	27-06-02	> 90% Chrysotile	NA	---
Basem		Harvey Brk	166	floor tiles, gray with white/black streaks, 9" x 9"	NA	NA		Basement: workroom 05	guesthouse	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
R 002A (boiler)	Occ.	Harvey Brk	166	flange gaskets	60 ea	NA	< 70	R 002A (boiler)	guesthouse	moderate		not identified	20-06-02	Assumed	UnD	---
1.2		Harvey Brk	167	floor tiles, beige with white/brown streaks, 9" x 9"	NA	NA		1st - 2nd floor: hallway	administrative	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
Basem	Frq	Harvey Brk	167	fire doors	7 ea	NA	< 70	Basement	administrative	enclosed		not identified	20-06-02	Assumed	UnD	---
Basem		Harvey Brk	167	floor tiles, lightbrown with brown streaks, 9" x 9"	NA	NA		Basement: hall	administrative	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative

417th BSB Asbestos Survey																
Floor	**Use**	**Installation:**	**Bldg No.**	**Description:**	**LM**	**SM**	**ALG**	**Rm No.**	**Type of bldg.**	**Fri.**	**Date of survey:**	**Result of survey:**	**Date of resurvey**	**Result of resurvey**	**Cond.**	**Comments**
Basem	Occ.	Harvey Brk	167	boiler door gasket (asbestos rope)	16 ea	NA	68	Basement: heating room	administrative	high		not identified	20-06-02	> 90 % Chrysotile	UnD	---
Heating room	Occ.	Harvey Brk	167	flange gaskets	300 ea	NA	< 70	Heating room	administrative	moderate		not identified	20-06-02	Assumed	UnD	---
1.2		Harvey Brk	168	suspended ceiling, white, 1.5m x 30cm	NA	NA		1st - 2nd floor: hallway	administrative	NA	1990	Assumed	20-06-02	No Asbestos	NA	---
Basem	Frq	Harvey Brk	168	fire doors	7 ea	NA	< 70	Basement	administrative	enclosed		not identified	20-06-02	Assumed	UnD	---
B 1,2		Harvey Brk	168	floor tiles, beige with white/brown streaks, 9" x 9"	NA	NA		basement, 1st - 2nd floor: hallway	administrative	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
Heating room	Occ.	Harvey Brk	168	flange gaskets	50 ea	NA	< 70	Heating room	administrative	moderate		not identified	20-06-02	Assumed	UnD	---
1,2,B		Harvey Brk	169	floor tiles, beige with white/brown streaks, 9" x 9"	NA	NA		1st - 2nd floor: hallway; Basement: kitchen, office 10, hallway	administrative	NA	1990	Assumed	20-06-02	No Asbestos	NA	mastic negative
Basem	Frq	Harvey Brk	169	fire doors	7 ea	NA	< 70	Basement	administrative	enclosed		not identified	20-06-02	Assumed	UnD	---
Heating room	Occ.	Harvey Brk	169	flange gaskets	50 ea	NA	< 70	Heating room	administrative	moderate		not identified	20-06-02	Assumed	UnD	---
Basem		Harvey Brk	170	floor tiles, gray with white/black streaks, 9" x 9"	NA	180 m²		Basement	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	---
Basem	Frq	Harvey Brk	170	mastic	NA	180 m²	28	Basement	administrative	low		not identified	26-06-02	Chrysotile traces	UnD	original and two other samples negative
Basem		Harvey Brk	170	floor tiles, red with white streaks, 9" x 9"	NA	NA		Basement	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	mastic negative
Basem		Harvey Brk	170	floor tiles, green with white streaks, 9" x 9"	NA	NA		Basement	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	mastic negative
Basem		Harvey Brk	170	floor tiles, black with white streaks, 9" x 9"	NA	50 m²		Basement	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	no asbestos detected
Basem	Frq	Harvey Brk	170	mastic	NA	50 m²	28	Basement	administrative	low		not identified	26-06-02	< 10 % Chrysotile	UnD	---

417th BSB Asbestos Survey																
Floor	***Use***	***Installation:***	***Bldg No.***	***Description:***	***LM***	***SM***	***ALG***	***Rm No.***	***Type of bldg.***	***Fri.***	***Date of survey:***	***Result of survey:***	***Date of resurvey***	***Result of resurvey***	***Cond.***	***Comments***
Basem	Frq	Harvey Brk	170	fire door	2 ea	NA	< 70	Basement	administrative	enclosed		not identified	26-06-02	Assumed	UnD	---
Mechanical room	Occ.	Harvey Brk	170	flange gaskets	25 ea	NA	< 70	Mechanical room	administrative	moderate		not identified	26-06-02	Assumed	UnD	---
Attic	Frq	Harvey Brk	173	9" x 9" floor tiles grey		6		attic bathroom	Housing	no	09-Dec-97	No Asbestos			UnD	
Attic	Frq	Harvey Brk	173	9" x 9" floor tiles grey		6		attic bathroom	Housing	no	09-Dec-97	No Asbestos			UnD	
Attic	Frq	Harvey Brk	173	9" x 9" floor tiles grey		6		attic bathroom	Housing	no	09-Dec-97	No Asbestos			UnD	
Basem	Rar	Harvey Brk	173	wallplaster		165		basement	Housing	no	09-Dec-97	No Asbestos			light	
Basem	Rar	Harvey Brk	173	wallplaster		165		basement	Housing	no	09-Dec-97	No Asbestos			light	
Basem	Rar	Harvey Brk	173	wallplaster		165		basement	Housing	no	09-Dec-97	No Asbestos			light	
All	Brk	Harvey Brk	174	Plaster		100	55	All	Army Pers.	No	11/20/89	Assumed			UnD	
All	Brk	Harvey Brk	174	9"x9" Floor Tile		39	55	Bath.	Army Pers.	No	11/20/89	Assumed			UnD	
All	Brk	Harvey Brk	174	Pipe Insulation				All	Army Pers.	Yes	11/20/89	No Asbestos				
All	Brk	Harvey Brk	174	Pipe Insulation				All	Army Pers.	Yes	11/20/89	No Asbestos				
All	Brk	Harvey Brk	174	Pipe Insulation				All	Army Pers.	Yes	11/20/89	No Asbestos				
2	Frq	Harvey Brk	175	12" x 12" floor tiles beige		55	53	LTC Rentz House	Army Pers.	no	15-Dec-97	5% chrysotile			UnD	
2	Frq	Harvey Brk	175	12" x 12" floor tiles beige		55	53	LTC Rentz House	Army Pers.	no	15-Dec-97	4% chrysotile			UnD	dupl. of HA-175-01-01
2	Frq	Harvey Brk	175	12" x 12" floor tiles beige		55	53	LTC Rentz House	Army Pers.	no	15-Dec-97	4% chrysotile			UnD	
2	Frq	Harvey Brk	175	12" x 12" floor tiles beige		55	53	LTC Rentz House	Army Pers.	no	15-Dec-97	tile: 4% chrysotile; mastic: 12% chrysotile			UnD	
		Harvey Brk	178									No ACM Obs.				
1,2	Occ.	Harvey Brk	181	9"x9" Floor Tile		130	48	Offices	Army and Air Force	NO	13-07-90	Assumed			UnD	
1,2		Harvey Brk	181	Pipe Insulation				Thruout			13-07-90	No Asbestos				
1,2		Harvey Brk	181	Pipe Insulation				Thruout			13-07-90	No Asbestos				
1,2		Harvey Brk	181	Pipe Insulation				Thruout			13-07-90	No Asbestos				
Air Force	Rar	Harvey Brk	181	Transite Roofing Panels		93	46	Shed Roof	Maintenance	NO	13-07-90	Assumed			UnD	
1st floor: room 109	Frq	Harvey Brk	187	fiber cement wallboard (woodlike finish)	NA	10 m²	58	1st floor: room 109	mail APO	nonfriable		not identified	25-06-02	< 10 % Chrysotile	minor damage	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Harvey Brk	187	pipe insulation (silver paint, plaster, cardboard, mineral fibers)	2 m	NA	76	1st floor: heating room 103	mail APO	high		not identified	25-06-02	< 10 % Chrysotile	Significant damage	tested negative in 1990
R 103 (mechanical room)	Occ.	Harvey Brk	187	flange gaskets	30 ea	NA	< 70	R 103 (mechanical room)	mail APO	moderate		not identified	25-06-02	Assumed	UnD	---
roof		Harvey Brk	187	transite-type roofing panels	NA	10 m²	55	roof	mail APO	nonfriable	1990	Assumed	25-06-02	Assumed	UnD	---
1	Frq	Harvey Brk	200	12"x12" Floor Tile		6	53	Thruout	Military	No	28-06-90	Assumed			UnD	
1	Frq	Harvey Brk	200	Sheetrock		50	53	Thruout	Military	No	28-06-90	Assumed			UnD	
roof		Harvey Brk	203	asbestos-cement roofing panels	NA	160 m²	13	roof	storage	nonfriable		not identified	25-06-02	< 10 % Chrysotile	minor damage	---
1	Frq	Harvey Brk	223	9"x9" Floor Tile		85	63	Thruout	Civilian/Military	No	28-06-90	Assumed			damaged	
1	Frq	Harvey Brk	223	Sheetrock		170	53	Thruout	Civilian/Military	No	28-06-90	Assumed			UnD	
1		Harvey Brk	223	2'x2' Ceiling Tile				Thruout			28-06-90	No Asbestos				
1		Harvey Brk	223	2'x2' Ceiling Tile				Thruout			28-06-90	No Asbestos				
1		Harvey Brk	223	2'x2' Ceiling Tile				Thruout			28-06-90	No Asbestos				
		Harvey Brk	236									No ACM Obs.				
1	Frq	Harvey Brk	243	floor tiles, gray with white/black streaks, 12" x 12"	NA	35 m²	61	1st floor: storage 110, hall	canteen	nonfriable	1990	Assumed	20-06-02	<< 10 % Chrysotile	partially Significant damage	mastic contains also asbestos
1	Frq	Harvey Brk	243	mastic	NA	35 m²	70	1st floor: storage 110, hall	canteen	low		not identified	20-06-02	<< 10 % Chrysotile	partially Significant damage	floor tile contains asbestos
1		Harvey Brk	243	floor tiles, 9" x 9"	NA	NA		dining area	canteen	NA	1990	Assumed	20-06-02	Assumed	NA	Abated
R 106A (mechanical room)	Occ.	Harvey Brk	243	flange gaskets	5 ea	NA	< 70	R 106A (mechanical room)	canteen	moderate		not identified	20-06-02	Assumed	UnD	---
roof		Harvey Brk	243	transite-type roofing panels	NA	700 m²	10	roof	canteen	nonfriable	1990	Assumed	20-06-02	Assumed	UnD	---
1	Frq	Harvey Brk	244	Sheetrock		230		Thruout	Clerks, Shoppers	No	28-06-90	Assumed			damaged	Abated
1	Frq	Harvey Brk	244	2'x2' Floor Tile		100		Thruout	Clerks, Shoppers	No	28-06-90	Assumed			damaged	Abated
1	Brk	Harvey Brk	270	12"x12" Floor Tile		21		Living Rm	Families	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	270	Linoleum		24		Kitchen	Families	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	270	Plaster		372		All	Families	No	11/20/89	Assumed			UnD	Abated

417th BSB Asbestos Survey

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Attic	Brk	Harvey Brk	270	Light Fix. Backing				Attic	Families	Yes	11/20/89	35% Chrys.			damaged	Abated
Attic	Brk	Harvey Brk	270	Light Fix. Backing				Attic	Families	Yes	11/20/89	35% Chrys.			damaged	Abated
Attic	Brk	Harvey Brk	270	Light Fix. Backing				Attic	Families	Yes	11/20/89	35% Chrys.			damaged	Abated
Attic	Brk	Harvey Brk	270	Pipe Insulation				Attic	Families	Yes	11/20/89	No Asbestos				Abated
Attic	Brk	Harvey Brk	270	Pipe Insulation				Attic	Families	Yes	11/20/89	No Asbestos				Abated
Attic	Brk	Harvey Brk	270	Pipe Insulation				Attic	Families	Yes	11/20/89	No Asbestos				Abated
1	Brk	Harvey Brk	278	12"x12" Floor Tile		21		Living Rms	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	278	Linoleum		33		Kitch,Bathrm	Army Pers.	No	11/20/89	Assumed			UnD	Abated
All	Brk	Harvey Brk	278	Plaster		372		All	Army Pers.	No	11/20/89	Assumed			UnD	Abated
		Harvey Brk	282									No ACM Obs.				Abated
1	Brk	Harvey Brk	284	12"x12" Floor Tile		21		Living Rms	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	284	Linoleum		33		Kitch.,Bathrm.	Army Pers.	No	11/20/89	Assumed			UnD	Abated
All	Brk	Harvey Brk	284	Plaster		372		All	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	288	12"x12" Floor Tile		21		Living Rm	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	288	Linoleum		33		Kitch.,Bathrm.	Army Pers.	No	11/20/89	Assumed			UnD	Abated
All	Brk	Harvey Brk	288	Plaster		372		All	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	292	9"x9" Floor Tile		26		Living Rm	Army Pers.	No	11/20/89	Assumed			UnD	Abated
1	Brk	Harvey Brk	292	Linoleum		33		Kitch.,Bathrm.	Army Pers.	No	11/20/89	Assumed			UnD	Abated
All	Brk	Harvey Brk	292	Plaster		372		All	Army Pers.	No	11/20/89	Assumed			UnD	Abated
Basem	Brk	Harvey Brk	292	Pipe Insulation	11			Bs	Army Pers.	No	15-12-94	Assumed				Abated
1,2	Brk	Harvey Brk	300	Linoleum		186	55	Apts.	Army Pers.	No	11/21/89	Assumed			UnD	
1,2	Brk	Harvey Brk	300	9"x9" Floor Tile		60	55	Apts.	Army Pers.	No	11/21/89	Assumed			UnD	
All	Brk	Harvey Brk	300	Plaster		2416	55	Apts. & Halls	Army Pers.	No	11/21/89	Assumed			UnD	
Basem	Rar	Harvey Brk	300	pipe insulation	110			boiler room	Housing	yes	Nov-89	No Asbestos	10-Dec-97	No Asbestos	heavy	
Basem	Rar	Harvey Brk	300	pipe insulation	110			boiler room	Housing	yes	Nov-89	No Asbestos	10-Dec-97	No Asbestos	heavy	
Basem	Rar	Harvey Brk	300	pipe insulation	110			boiler room	Housing	yes	Nov-89	No Asbestos	10-Dec-97	No Asbestos	heavy	
Basem	Rar	Harvey Brk	300	tank insulation		56		boiler room	Housing	yes	Nov-89	2% chrysotile	10-Dec-97	visual inspection	light	Abated
Basem	Rar	Harvey Brk	300	tank insulation		56		boiler room	Housing	yes	Nov-89	3% chrysotile	10-Dec-97	visual inspection	light	Abated
Basem		Harvey Brk	300	Pipe Insulation				Hallways		Yes	11/21/89	No Asbestos				

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Basem		Harvey Brk	300	Pipe Insulation				Hallways		Yes	11/21/89	No Asbestos				
Basem		Harvey Brk	300	Pipe Insulation				Hallways		Yes	11/21/89	No Asbestos				
roof		Harvey Brk	300	chimney shingles		20	18	roof	Housing	no	Nov-89	Assumed	10-Dec-97	visual inspection	UnD	
1	Rar	Harvey Brk	520	transite wall panel		1		hangar	Warehouse	no	12-Dec-97	20% chrysotile			heavy	Abated
1	Rar	Harvey Brk	520	heat. gasket		0.2		hangar	Warehouse	no	12-Dec-97	40% chrysotile			heavy	Abated
1	Rar	Harvey Brk	520	duct gasket	5			hangar	Warehouse	no	12-Dec-97	No Asbestos			heavy	
1	Rar	Harvey Brk	557	Plaster		75	58	Thruout	Civilian Employees	No	28-06-90	Assumed			UnD	
1		Harvey Brk	557	Pipe Insulation				Boiler Rm			28-06-90	No Asbestos				
1		Harvey Brk	557	Pipe Insulation				Boiler Rm			28-06-90	No Asbestos				
1		Harvey Brk	557	Pipe Insulation				Boiler Rm			28-06-90	No Asbestos				
Exterior	Rar	Harvey Brk	557	Transite Roofing Panels		37	46	Roof	Military	No	28-06-90	Assumed			UnD	
1	Frq	Harvey Brk	558	Plaster		65	68	Thruout	Military	No	28-06-90	Assumed			damaged	
1	Frq	Harvey Brk	559	Plaster		20	68	Thruout	Military	No	28-06-90	Assumed			damaged	
All	Occ.	F.H. Kitzingen	318	Wall Plaster		1208	63	All	Maintenance	No	29-06-90	Assumed			damaged	Heating plant turned over
Basem	Rar	F.H. Kitzingen	318	Tank Insulation		13	56	Main	Maintenance	No	29-06-90	Assumed			UnD	Heating plant turned over
Exterior	Rar	F.H. Kitzingen	318	Transite Roofing Panels		558	53	Roof	Maintenance	No	29-06-90	Assumed			UnD	Heating plant turned over
1	Rar	F.H. Kitzingen	318	Solid Gasket Material		5	41	Boiler	Maintenance	No	29-06-90	Assumed			UnD	Heating plant turned over
1	Rar	F.H. Kitzingen	318	Rope Gasket Material	244			Boiler	Maintenance	Yes	29-06-90	85% Chrys.			Severe Damage	Heating plant turned over
1	Rar	F.H. Kitzingen	318	Rope Gasket Material	244			Boiler	Maintenance	Yes	29-06-90	85% Chrys.			Severe Damage	Heating plant turned over
1	Rar	F.H. Kitzingen	318	Rope Gasket Material	244			Boiler	Maintenance	Yes	29-06-90	85% Chrys.			Severe Damage	Heating plant turned over
1	Rar	F.H. Kitzingen	318	Rope Gasket Material	244			Boiler	Maintenance	Yes	29-06-90	99% Chrys.			Severe Damage	Heating plant turned over
All		F.H. Kitzingen	318	Fire Brick				Thruout			29-06-90	No Asbestos				Heating plant turned over
All		F.H. Kitzingen	318	Fire Brick				Thruout			29-06-90	No Asbestos				Heating plant turned over
All		F.H. Kitzingen	318	Fire Brick				Thruout			29-06-90	No Asbestos				Heating plant turned over
Basem		F.H. Kitzingen	318	Pipe Insulation				Main			29-06-90	No Asbestos				Heating plant turned over
Basem		F.H. Kitzingen	318	Pipe Insulation				Main			29-06-90	No Asbestos				Heating plant turned over
Basem		F.H. Kitzingen	318	Pipe Insulation				Main			29-06-90	No Asbestos				Heating plant turned over
1	Frq	F.H. Kitzingen	320	Wall Plaster		744	58	All	Hsg	No	28-06-90	Assumed			UnD	
1	Rar	F.H. Kitzingen	320	Transite Roofing Panels		13	46	Shed Roof		No	28-06-90	Assumed			UnD	
1		F.H. Kitzingen	320	2'x2' Ceiling Tile				Main Rm			28-06-90	No Asbestos				

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1		F.H. Kitzingen	320	2'x2' Ceiling Tile				Main Rm			28-06-90	No Asbestos				
1		F.H. Kitzingen	320	2'x2' Ceiling Tile				Main Rm			28-06-90	No Asbestos				
		F.H. Kitzingen	335									No ACM Obs.				
1	Frq	F.H. Kitzingen	349	Sheetrock		465	58	All	Children	No	28-06-90	Assumed			UnD	
1	Frq	F.H. Kitzingen	349	Linoleum		195	58	Most	Children	No	28-06-90	Assumed			UnD	
Basement	by children	F.H. Kitzingen	341	Flange gaskets	20 ea	NA	< 70	Basement	Youth center	Low		not identified	18/06/02	Assumed	UnD	---
Roof		F.H. Kitzingen	341	Corrugated cement roofing panels	NA	1000 m²	13	Roof	Youth center	Nonfriable		not identified	18/06/02	Chrysotile	Minor damage	---
all	by children	F.H. Kitzingen	341	9" x 9" beige floor tile	NA	7 m²	60	Stairwell to basement	Youth center	Nonfriable	1990	Assumed	18/06/02	<10% Chrysotile	UnD	mastic contains also asbestos
all	by children	F.H. Kitzingen	341	Black mastic	NA	7 m²	33	Stairwell to basement	Youth center	Low		not identified	18/06/02	<10% Chrysotile	UnD	floor tile contains asbestos
2		Larson Brk	1	mastic, black	NA	110 m²	NA	Room 221	administrative	NA		not identified	20/06/02	No Asbestos	NA	floor tile negative
B,1	Frq	Larson Brk	1	fire doors	16 ea	NA	< 70	Basement, 1st floor	administrative	Enclosed		not identified	20-06-02	Assumed	UnD	---
throughout		Larson Brk	1	4", 6", 12" pipe insulations	NA	NA	NA	throughout	administrative	NA	Dec. 94	Amosite, Chrysotile	21-06-02	removed	NA	
1	Frq	Larson Brk	2	Pipe insulation, 3", paper / mineral fiber	15 lm	NA	72	1st floor drycleaners (R 107)	administrative	Moderate	1990	Assumed	20/06/02	<<10% Chrysotile	Minor damage	---
1	Frq	Larson Brk	2	Pipe insulation, 4", burlap / plaster / paper / mineral fiber	20 lm	NA	74	1st floor hallway	administrative	Moderate	1990	Assumed	20/06/02	<<10% Amosite	Minor damage	---
2	Frq	Larson Brk	2	9" x 9" white floor tile with olive streaks	NA	140 m²	55	2nd floor: R 222, 223, 224	administrative	Nonfriable	1990	Assumed	20/06/02	<<10% Chrysotile	UnD	mastic contains also asbestos
2	Frq	Larson Brk	2	Black mastic	NA	140 m²	28	2nd floor: R 222, 223, 224	administrative	Low		not identified	20/06/02	<<10% Chrysotile	UnD	floor tile contains asbestos
2		Larson Brk	2	9" x 9" gray floor tile with white streaks	NA	50 m²	NA	Office 225 - 2nd floor	administrative	NA	1990	Assumed	21/06/02	No Asbestos	NA	mastic contains asbestos
2	Frq	Larson Brk	2	Black mastic	NA	50 m²	31	Office 225 - 2nd floor	administrative	Low		not identified	21/06/02	<<10% Chrysotile	Minor damage	---
2		Larson Brk	2	Beige linoleum	NA	30 m²	NA	2nd floor barber shop	administrative	NA	1990	Assumed	20/06/02	No Asbestos	NA	no asbestos detected
3	Frq	Larson Brk	2	9" x 9" brown floor tiles	NA	100 m²	55	3rd floor, R 311B	administrative	Nonfriable		not identified	20-06-02	Assumed	UnD	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
all		Larson Brk	2	pipe insulation	NA	NA		attic, entrance, basement	administrative	NA	1990	Assumed	20-06-02	removed	NA	Abated
1		Larson Brk	2	24" x 24" brown floor tiles	NA	NA		bank	administrative	NA	1990	Assumed	20-06-02	removed	NA	Abated
all	Frq	Larson Brk	2	transite-type window sill	30 ea	NA	55	Floors 1-3	administrative	Nonfriable	1990	Assumed	20/06/02	>10% Chrysotile	UnD	---
2	Frq	Larson Brk	2	Black mastic	NA	140 m²	28	2nd floor: R 222, 223, 224	administrative	Low		not identified	20/06/02	<<10% Chrysotile	UnD	floor tile contains asbestos
2		Larson Brk	2	9" x 9" gray floor tile with white streaks	NA	50 m²	NA	Office 225 - 2nd floor	administrative	NA	1990	Assumed	21/06/02	No Asbestos	NA	mastic contains asbestos
2	Frq	Larson Brk	2	Black mastic	NA	50 m²	31	Office 225 - 2nd floor	administrative	Low		not identified	21/06/02	<<10% Chrysotile	Minor damage	---
2		Larson Brk	2	Beige linoleum	NA	30 m²	NA	2nd floor barber shop	administrative	NA	1990	Assumed	20/06/02	No Asbestos	NA	no asbestos detected
3	Frq	Larson Brk	2	9" x 9" brown floor tiles	NA	100 m²	55	3rd floor, R 311B	administrative	Nonfriable		not identified	20-06-02	Assumed	UnD	---
all		Larson Brk	2	pipe insulation	NA	NA		attic, entrance, basement	administrative	NA	1990	Assumed	20-06-02	removed	NA	Abated
1		Larson Brk	2	24" x 24" brown floor tiles	NA	NA		bank	administrative	NA	1990	Assumed	20-06-02	removed	NA	Abated
all	Frq	Larson Brk	2	transite-type window sill	30 ea	NA	55	Floors 1-3	administrative	Nonfriable	1990	Assumed	20/06/02	>10% Chrysotile	UnD	---
B,1,2,3	Frq	Larson Brk	3	Plaster		5855	68	Thruout	Military	No	02-07-90	Assumed			damaged	
B,1,2,3	Frq	Larson Brk	3	9"x9" Floor Tile		2140	63	Thruout	Military	No	02-07-90	Assumed			damaged	
1	Frq	Larson Brk	3	12"x12" Floor Tile		40	53	26	Military	No	02-07-90	Assumed			UnD	
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
1	Frq	Larson Brk	3	12"x12" Floor Tile		40	53	26	Military	No	02-07-90	Assumed			UnD	
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	3	Pipe Insulation				Thruout			02-07-90	No Asbestos				
B,1,2,3	Frq	Larson Brk	3	Plaster		5855	68	Thruout	Military	No	02-07-90	Assumed			damaged	
B,1,2,3	Frq	Larson Brk	3	9"x9" Floor Tile		2140	63	Thruout	Military	No	02-07-90	Assumed			damaged	
1		Larson Brk	4	9" x 9" gray floor tile with black and white streaks	NA	50 m²	NA	Offices 101, 102, 107 - 1st floor	administrative	NA	1990	Assumed	20/06/02	No Asbestos	UnD	mastic contains asbestos

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
1	Frq	Larson Brk	4	Black mastic	NA	50 m²	28	Offices 101, 102, 107 - 1st floor	administrative	Low		not identified	20/06/02	<<10% Chrysotile	UnD	---
1		Larson Brk	4	12" x 12" beige floor tile with brown and white speckles	NA	80 m²	NA	Offices 103, 104, 105	administrative	NA	1990	Assumed	20/06/02	No Asbestos	NA	no asbestos detected
1		Larson Brk	4	12" x 12" beige floor tile with brown streaks	NA	20 m²	NA	Office 110	administrative	NA	1990	Assumed	20/06/02	No Asbestos	NA	no asbestos detected
1		Larson Brk	4	Black mastic	NA	20 m²	NA	Office 110	administrative	NA		not identified	20/06/02	No Asbestos	NA	no asbestos detected
1	Frq	Larson Brk	4	gray cardboard window sill insulation	10 ea	NA		1st floor: 103-105, 107, hall, latrines	administrative	moderate		not identified	21/06/02	>50% Chrysotile	Significant damage	Abated
2	Frq	Larson Brk	4	Flue door gasket	1 ea	NA	71	2nd floor hallway	administrative	High		not identified	21-06-02	Assumed	Minor damage	---
Exterior		Larson Brk	4	Fire doors	3 ea	NA	< 70	Exterior	administrative	Enclosed		not identified	21-06-02	Assumed	UnD	---
Roof		Larson Brk	4	Transite roof panels	NA	NA		Roof	administrative	NA	1990	Assumed	21-06-02	removed	NA	Abated
1	Occ.	Larson Brk	4	Flange gaskets	30 ea	NA	< 70	Room 107A (mechanical)	administrative	Low		not identified	21-06-02	Assumed	UnD	---
Basem	Frq	Larson Brk	5	Pipe Insulation				Bsmt Hallway	Civilian & Military	Yes	29-06-90	No Asbestos			Severe Damage	
2	Frq	Larson Brk	5	linoleum		9		Room 214	Military	no	Jun-90	Assumed	18-Dec-97	visual inspection	UnD	Abated
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile:5% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile: 3% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile:5% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	Tile:3% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	Tile:2% chrysotile; Mastic:5% chrysotile	light	

417th BSB Asbestos Survey																
Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	(QC) floor tile 1-2% chrysotile, mastic 5% chrysotile	light	dupl. of LA-5-02-02
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300		3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	light	
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	
Basem	Rar	Larson Brk	5	pipe insulation	675		73	basement	Civilian/Military	yes	Jun-90	10% amosite	19-Dec-97	visual inspection	light	
Basem	Rar	Larson Brk	5	pipe insulation	675		73	basement	Civilian/Military	yes	Jun-90	2% amosite	19-Dec-97	visual inspection	light	
2	Frq	Larson Brk	5	linoleum		9		Room 214	Military	no	Jun-90	Assumed	18-Dec-97	visual inspection	UnD	Abated
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile:5% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile: 3% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	9" x 9" floor tile, gray		230	51	3rd floor + basement hallways	Military	no	Jun-90	Assumed	19-Dec-97	Tile:5% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	Tile:3% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	Tile:2% chrysotile; Mastic:5% chrysotile	light	
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300	51	3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	(QC) floor tile 1-2% chrysotile, mastic 5% chrysotile	light	dupl. of LA-5-02-02
3	Rar	Larson Brk	5	12" x 12" floor tile, beige		300		3rd floor hallway	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	light	
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	
all	Rar	Larson Brk	5	plaster		7806		3rd floor hallway, throughout	Military	no	Jun-90	Assumed	19-Dec-97	No Asbestos	UnD	
Basem	Frq	Larson Brk	5	Pipe Insulation				Bsmt Hallway	Civilian & Military	Yes	29-06-90	No Asbestos			Severe Damage	
Basem	Rar	Larson Brk	5	pipe insulation	675			basement	Civilian/Military	yes	Jun-90	10% amosite	19-Dec-97	visual inspection	light	Abated
Basem	Rar	Larson Brk	5	pipe insulation	675			basement	Civilian/Military	yes	Jun-90	2% amosite	19-Dec-97	visual inspection	light	Abated
1,2	Frq	Larson Brk	6	Plaster		12000	68	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
1,2	Frq	Larson Brk	6	12"x12" Floor Tile		3300	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
B,1	Frq	Larson Brk	6	9"x9" Floor Tile		575	63	Various	Soldier Brk	No	02-07-90	Assumed			damaged	
1	Frq	Larson Brk	6	Sheetrock		25	53	10	Soldier Brk	No	02-07-90	Assumed			UnD	
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				13			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				10			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				10			02-07-90	No Asbestos				
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1	Frq	Larson Brk	6	Sheetrock		25	53	10	Soldier Brk	No	02-07-90	Assumed			UnD	
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1		Larson Brk	6	2'x4' Ceiling Tile				Barber Shop			02-07-90	No Asbestos				
1,2	Frq	Larson Brk	6	Plaster		12000	68	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
1,2	Frq	Larson Brk	6	12"x12" Floor Tile		3300	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
Attic		Larson Brk	6	Pipe Insulation				Attic			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				13			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				10			02-07-90	No Asbestos				
Basem		Larson Brk	6	Pipe Insulation				10			02-07-90	No Asbestos				
B,1	Frq	Larson Brk	6	9"x9" Floor Tile		575	63	Various	Soldier Brk	No	02-07-90	Assumed			damaged	
B,1,2,3	Frq	Larson Brk	8	Plaster		5760	68	Thruout	Military Pers.	No	02-07-90	Assumed			damaged	
Basem	Frq	Larson Brk	8	9"x9" Floor Tile		20	63	21	Office Pers.	No	02-07-90	Assumed			damaged	
Basem	Frq	Larson Brk	8	12"x12" Floor Tile		418	53	29,4-8,22-25	Military Pers.	No	02-07-90	Assumed			UnD	
1,2,3	Frq	Larson Brk	8	Linoleum		3484	53	Barrack Rms,	Military Pers.	No	02-07-90	Assumed			UnD	
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
1,2,3	Frq	Larson Brk	8	Linoleum		3484	53	Barrack Rms,	Military Pers.	No	02-07-90	Assumed			UnD	
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
1,2,3		Larson Brk	8	2'x2' Ceiling Tile				Barrack Rms,			02-07-90	No Asbestos				
Basem	Frq	Larson Brk	8	9"x9" Floor Tile		20	63	21	Office Pers.	No	02-07-90	Assumed			damaged	
Basem	Frq	Larson Brk	8	12"x12" Floor Tile		418	53	29,4-8,22-25	Military Pers.	No	02-07-90	Assumed			UnD	
B,1,2,3	Frq	Larson Brk	8	Plaster		5760	68	Thruout	Military Pers.	No	02-07-90	Assumed			damaged	
B,1,2	Frq	Larson Brk	9	Plaster		6041	68	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
1	Frq	Larson Brk	9	Sheetrock		95	63	Misc. Partition	Soldier Brk	No	02-07-90	Assumed			damaged	
B,1	Frq	Larson Brk	9	9"x9" Floor Tile		1400	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
1	Frq	Larson Brk	9	12"x12" Floor Tile		1952	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				

417th BSB Asbestos Survey

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B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				
B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
1	Frq	Larson Brk	9	Sheetrock		95	63	Misc. Partition	Soldier Brk	No	02-07-90	Assumed			damaged	
1	Frq	Larson Brk	9	12"x12" Floor Tile		1952	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
Basem		Larson Brk	9	Tank Insulation				Hting Rm			03-07-90	No Asbestos				
B,1	Frq	Larson Brk	9	9"x9" Floor Tile		1400	63	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
B,1,2	Frq	Larson Brk	9	Plaster		6041	68	Thruout	Soldier Brk	No	02-07-90	Assumed			damaged	
B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				
B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				
B,A		Larson Brk	9	Pipe Insulation				Thruout			02-07-90	No Asbestos				
B,1,2	Frq	Larson Brk	10	Plaster		139410	68	Thruout	Soldier Brk	No	05-07-90	Assumed			damaged	
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem	Tmp	Larson Brk	10	9" x 9" floor tile, red		30	58	basement	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)
1.2	Tmp	Larson Brk	10	18" x 18" floor tiles, beige		1300	58	1st+2nd floor	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
3	Tmp	Larson Brk	10	12" x 12" floor tiles, beige		250	58	3rd floor	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)
1.2	Tmp	Larson Brk	10	18" x 18" floor tiles, beige		1300	58	1st+2nd floor	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)
3	Tmp	Larson Brk	10	12" x 12" floor tiles, beige		250	58	3rd floor	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem		Larson Brk	10	Tank Insulation				Hting			05-07-90	No Asbestos				
Basem	Tmp	Larson Brk	10	9" x 9" floor tile, red		30	58	basement	Soldier Barracks	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	only building part B is not renovated (see plan)
B,1,2	Frq	Larson Brk	10	Plaster		139410	68	Thruout	Soldier Brk	No	05-07-90	Assumed			damaged	
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
B,A		Larson Brk	10	Pipe Insulation				Thruout			05-07-90	No Asbestos				
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
B,1,2,3	Occ.	Larson Brk	11	Plaster		8550	68	Thruout	Military	No	03-07-90	Assumed			damaged	
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem	Tmp	Larson Brk	11	9" x 9" floor tiles		50	48	basement lounge	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	UnD	
3	Frq	Larson Brk	11	12" x 12" floor tiles		650	63	3rd floor	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	
1.2	Frq	Larson Brk	11	17" x 17" floor tiles		920	63	hallway+offices	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	trace chrysotile	17-Dec-97	visual inspection	light	Abated

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	5% amosite	17-Dec-97	visual inspection	light	Abated
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	5% amosite	17-Dec-97	visual inspection	light	Abated
1.2	Frq	Larson Brk	11	17" x 17" floor tiles		920	63	hallway+offices	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	
3	Frq	Larson Brk	11	12" x 12" floor tiles		650	63	3rd floor	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	light	
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
Basem	Occ.	Larson Brk	11	Pipe Insulation	399		88	Thruout	Military	Yes	03-07-90	No Asbestos				
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem		Larson Brk	11	Tank Insulation				Hting Rm	Military	Yes	03-07-90	No Asbestos				
Basem	Tmp	Larson Brk	11	9" x 9" floor tiles		50	48	basement lounge	Military	no	Jul-90	Assumed	17-Dec-97	visual inspection	UnD	
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	trace chrysotile	17-Dec-97	visual inspection	light	Abated
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	5% amosite	17-Dec-97	visual inspection	light	Abated
Basem	Tmp	Larson Brk	11	pipe insulation	399			basement	Military	yes	Jan-95	5% amosite	17-Dec-97	visual inspection	light	Abated
B,1,2,3	Occ.	Larson Brk	11	Plaster		8550	68	Thruout	Military	No	03-07-90	Assumed			damaged	
1,2	Rar	Larson Brk	12	Plaster		790	56	Thruout	None	No	03-07-90	Assumed			damaged	
1,2	Rar	Larson Brk	12	9"x9" Floor Tile		164	54	Thruout	None	No	02-07-90	Assumed			Severe Damage	
1	Rar	Larson Brk	12	Linoleum		86	51	Thruout	None	No	03-07-90	Assumed			damaged	
1,2	Rar	Larson Brk	12	Sheetrock		334	51	Thruout	None	No	03-07-90	Assumed			damaged	
2	Rar	Larson Brk	12	20"x20" Floor Tile		19	41	Stage	None	No	03-07-90	Assumed			UnD	
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				
2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				

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2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				
1	Rar	Larson Brk	12	Linoleum		86	51	Thruout	None	No	03-07-90	Assumed			damaged	
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1		Larson Brk	12	2'x4' Ceiling Tile				Stage			03-07-90	No Asbestos				
1,2	Rar	Larson Brk	12	Plaster		790	56	Thruout	None	No	03-07-90	Assumed			damaged	
1,2	Rar	Larson Brk	12	9"x9" Floor Tile		164	54	Thruout	None	No	02-07-90	Assumed			Severe Damage	
1,2	Rar	Larson Brk	12	Sheetrock		334	51	Thruout	None	No	03-07-90	Assumed			damaged	
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
1,2		Larson Brk	12	2'x2' Ceiling Tile				Main Rms			03-07-90	No Asbestos				
2	Rar	Larson Brk	12	20"x20" Floor Tile		19	41	Stage	None	No	03-07-90	Assumed			UnD	
2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				
2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				
2		Larson Brk	12	Transite Board				Side Stor Ar			03-07-90	No Asbestos				
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
Basem		Larson Brk	12	Boiler Insulation				Boiler Rm			02-07-90	No Asbestos				
1st floor	Frq	Larson Brk	14	12" x 12" beige floor tile with brown streaks	NA	90 m²	58	Offices 106, 107 storage 110	maintenance	Nonfriable	1990	Assumed	24/06/02	<10% Chrysotile	Minor damage	mastic contains also asbestos
1st floor	Frq	Larson Brk	14	Black mastic	NA	90 m²	31	Offices 106, 107 storage 110	maintenance	Low		not identified	24/06/02	<10% Chrysotile	Minor damage	floor tile contains asbestos
1		Larson Brk	14	9" x 9" gray floor tile with black and whitge streaks	NA	20 m²	NA	Offices 105,106	maintenance	NA	1990	Assumed	24/06/02	No Asbestos	NA	Mastic negative
1		Larson Brk	14	Black mastic	NA	20 m²	NA	Offices 105,106	maintenance	NA		not identified	24/06/02	No Asbestos	NA	floor tile negative
1	Frq	Larson Brk	14	Flange gaskets	40 ea	NA	< 70	Room 101A (heat exchanger)	maintenance	Low		not identified	24-06-02	Assumed	UnD	---
Throughout	Frq	Larson Brk	14	Fire doors	12 ea	NA	< 70	Throughout	maintenance	Enclosed		not identified	24-06-02	Assumed	UnD	---

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1	Frq	Larson Brk	15	9" x 9" red floor tile with white streaks	NA	25 m²	58	Room 103 (Tool Room)	maintenance	Nonfriable	1990	Assumed	24/06/02	<10% Chrysotile	Minor damage	Mastic negative
1	Frq	Larson Brk	15	Pipe insulation, 6", brown plaster	80 lm	NA	<70	Room 116, 117, 117A, 118	maintenance	moderate		not identified	24/06/02	traces Amosite	Minor damage	Partially Abated
1	Frq	Larson Brk	15	Pipe insulation, 6", brown plaster	80 lm	NA	<70	Room 116, 117, 117A, 118	maintenance	moderate		not identified	24/06/02	traces Chrysotile + Amosite	Minor damage	Partially Abated
1	Frq	Larson Brk	15	Fire doors	6 ea	NA	< 70	1st floor	maintenance	enclosed		not identified	14-06-02	Assumed	UnD	---
1	Frq	Larson Brk	19	Fire doors	7ea	NA	< 70	B-wing hall	maintenance	Enclosed		not identified	24-06-02	Assumed	UnD	---
1	Occ.	Larson Brk	19	Pipe insulation, burlap / brown plaster / paper / mineral fiber	20 lm	NA		Storage room 101	maintenance	High		not identified	24-06-02	Chrysotile	damaged	Abated
1	Occ.	Larson Brk	19	Flange gaskets	30 ea	NA	< 70	Storage room 101	maintenance	Low		not identified	24-06-02	Assumed	UnD	---
1		Larson Brk	19	9" x 9" floor tiles	NA	NA		vehicle bays	maintenance	NA	1990	Assumed	24-06-02	removed	NA	Abated
1	Frq	Larson Brk	20	Burner gasket, disassembled	1 ea	NA	74	Room 112A	maintenance	high		not identified	24/06/02	>90% Chrysotile	Minor damage	---
Throughout	Frq	Larson Brk	20	Fire doors	9 ea	NA	< 70	Throughout	maintenance	enclosed		not identified	24-06-02	Assumed	UnD	---
Throughout		Larson Brk	20	Pipe insulation	NA	NA		Throughout	maintenance	NA	1990	2% Amosite	24-06-02	removed	NA	Abated
B,A	Rar	Larson Brk	22	Pipe Insulation	244		70	Thruout	Maint. & Military	Yes	03-07-90	No Asbestos			damaged	
B,1,A	Frq	Larson Brk	22	Plaster		7430	68	Thruout	Civilian & Military	No	03-07-90	Assumed			damaged	
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout	Maint. & Military	Yes	03-07-90	No Asbestos			damaged	
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout			03-07-90	No Asbestos				
1		Larson Brk	22	12" x 12" floor tile		12		locker room	Maint./Military	no	Jul-90	Assumed	19-Dec-97	visual inspection		no access
1,attic		Larson Brk	22	9" x 9" floor tile		90		storage room and offices	Maint./Military	no	Jul-90	Assumed	19-Dec-97	visual inspection		no access
Attic		Larson Brk	22	1'x1' Ceiling Tile				Offices			03-07-90	No Asbestos				
Attic		Larson Brk	22	1'x1' Ceiling Tile				Offices			03-07-90	No Asbestos				
Attic		Larson Brk	22	1'x1' Ceiling Tile				Offices			03-07-90	No Asbestos				
Attic		Larson Brk	22	linoleum		88		mailroom and attic, latrine	Maint./Military	no	Jul-90	Assumed	19-Dec-97	visual inspection		Abated

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Basem	Tmp	Larson Brk	22	pipe insulation	244			basement	Maint./Military	yes	Jul-90	2% chrysotile	19-Dec-97	visual inspection	light	Abated
B,1,A	Frq	Larson Brk	22	Plaster		7430		Thruout	Civilian & Military	No	03-07-90	Assumed			damaged	Abated
B,A	Rar	Larson Brk	22	Pipe Insulation	244			Thruout	Maint. & Military	Yes	03-07-90	No Asbestos			damaged	Abated
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout	Maint. & Military	Yes	03-07-90	No Asbestos			damaged	Abated
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout			03-07-90	No Asbestos				Abated
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout			03-07-90	No Asbestos				Abated
B,A	Rar	Larson Brk	22	Pipe Insulation				Thruout			03-07-90	No Asbestos				Abated
1		Larson Brk	23	17"x17" floor tiles	NA	NA		1st floor, bookstore (R. 109)	storage	NA	1990	Assumed	26-06-02	Assumed	NA	Abated
Basem	Frq	Larson Brk	23	Fire doors	7 ea	NA	< 70	Basement	storage	Enclosed		not identified	26-06-02	Assumed	UnD	---
Basem		Larson Brk	23	9"x9" floor tiles	NA	NA		Basement	storage	NA	1990	Assumed	26-06-02	Assumed	NA	Abated
B,1	Frq	Larson Brk	23	Flange gaskets	75 ea	NA	< 70	Basement: mechanical room and hall; 1st floor: storage room 106	storage	Low		not identified	26-06-02	Assumed	UnD	---
Lower roof		Larson Brk	23	Roof flashing	20 lm	NA	10	Lower roof	storage	Nonfriable		not identified	26/06/02	<<10% Chrysotile	UnD	---
1		Larson Brk	24	9" x 9" gray floor tile with white streaks	NA	NA	NA	Office 122 and staiwell	administrative	NA	1990	Assumed	26/06/02	No Asbestos	NA	no asbestos detected
1		Larson Brk	24	Black mastic	NA	NA	NA	Office 122 and staiwell	administrative	NA		not identified	26/06/02	No Asbestos	NA	no asbestos detected
1		Larson Brk	24	12" x 12" beige floor tile	NA	NA	NA	Offices 112, 140,141, 142, and 143	administrative	NA	1990	Assumed	26/06/02	No Asbestos	NA	Mastic negative
1		Larson Brk	24	Tan mastic	NA	NA	NA	Offices 112, 140,141, 142, and 143	administrative	NA		not identified	26/06/02	No Asbestos	NA	floor tile negative
Basem	Frq	Larson Brk	24	Flange gaskets	25 ea	NA	< 70	Basement, Rooms 004B, 005B	administrative	Low		not identified	26-06-02	Assumed	UnD	---
Basem	Frq	Larson Brk	24	Fire door	1 ea	NA	< 70	Basement, Room 004B	administrative	Enclosed		not identified	26-06-02	Assumed	UnD	---

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B,2	Frq	Larson Brk	24	Pipe insulation, 8", white paint / burlap / brown plaster / paper / mineral fiber	70 lm	NA	74	basement: 004B,005B; 2nd floor: hall	administrative	moderate	1990	tested negative in 1998	26/06/02	<<10% Amosite	Minor damage	2 other samples negative, access limited
2	Occ.	Larson Brk	26	Transite-type air duct	20 lm	NA	50	Room 217	administrative	Nonfriable		not identified	26/06/02	10% Crysotile	UnD	---
Basem	Occ.	Larson Brk	26	9" x 9" green floor tile with white streaks	NA	30 m²	50	Room 005A, 005B	administrative	Nonfriable	1990	Assumed	19/06/02	10% Chrysotile	UnD	mastic contains also asbestos
Basem	Occ.	Larson Brk	26	Black mastic	NA	30 m²	23	Room 005A, 005B	administrative	Low		not identified	19/06/02	<<10% Chrysotile	UnD	floor tile contains asbestos
Basem	Occ.	Larson Brk	26	9" x 9" brown floor tile with white streaks	NA	30 m²	50	Room 005A, 005B	administrative	Nonfriable	1990	Assumed	19/06/02	<10% Chrysotile	UnD	mastic contains also asbestos
Basem	Occ.	Larson Brk	26	mastic	NA	30 m²	23	Room 005A, 005B	administrative	Low		not identified	19/06/02	Chrysotile	UnD	floor tile contains asbestos
Basem		Larson Brk	26	Textured plaster	NA	NA	NA	Room 005A and hallway	administrative	NA	1990	Assumed	19/06/02	No Asbestos	NA	no asbestos detected
Basem		Larson Brk	26	9" x 9" gray floor tile with black and white streaks	NA	NA	NA	Hallway and locker room	administrative	NA	1990	Assumed	20/06/02	No Asbestos	NA	Mastic negative
Basem		Larson Brk	26	Black mastic	NA	NA	NA	Hallway and locker room	administrative	NA		not identified	20/06/02	No Asbestos	NA	floor tile negative
Basem	Frq	Larson Brk	26	Flue door gasket	1 ea	NA	73	Basement hallway	administrative	High		not identified	19/06/02	Assumed	UnD	---
B,1	Frq	Larson Brk	26	Fire doors	3 ea	NA	< 70	Basement, 1st floor	administrative	Enclosed		not identified	19/06/02	Assumed	UnD	---
Basem	Frq	Larson Brk	26	Flange gaskets	120 ea	NA	< 70	Basement, R 006A	administrative	Low		not identified	19/06/02	Assumed	UnD	---
Exterior		Larson Brk	26	Corrugated roof panels	NA	5 m²	16	Exterior	administrative	Nonfriable		not identified	19/06/02	Assumed	Significant damage	---
1		Larson Brk	26	Acoustical wall tiles	NA	NA		Music Center	administrative	NA	1990	60% Amosite + Chrysotile	12-06-05	removed	NA	Abated
1	Frq	Larson Brk	27	50 x 50 cm gray floor tiles with white and black streaks	NA	140 m²	58	1st floor: R 101-105, 112, 114	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	Mastic negative
2	Frq	Larson Brk	27	Green 12" x 12" vinyl floor tiles with white streaks	NA	200 m²	58	2nd floor: all offices except R 201	administrative	nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	Mastic negative

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2		Larson Brk	27	gray vinyl flooring with black streaks	NA	NA	NA	2nd floor hall	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	floor tile contains asbestos
Basem		Larson Brk	27	9" x 9" green floor tile with white streaks	NA	NA	NA	Basement hall	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	no asbestos detected
R 022 (mechanical)	Occ.	Larson Brk	27	Flange gaskets	60 ea	NA	< 70	R 022 (mechanical)	administrative	Low		not identified	26-06-02	Assumed	Minor damage	---
1	Frq	Larson Brk	32	Transite-type panels	NA	10 m²	55	1st floor: R 103, in front of latrines	administrative	Nonfriable		not identified	19.06.2002	Assumed	UnD	---
R 104 (mechanical)	Occ.	Larson Brk	32	Fire door	1 ea	NA	< 70	R 104 (mechanical)	administrative	Enclosed		not identified	19.06.2002	Assumed	UnD	---
Throughout 1st floor	Frq	Larson Brk	32	gray and red 9"x9" vinyl floor tiles with mastic	NA	260 m²	61	Throughout 1st floor	administrative	Nonfriable	1990	Assumed	19.06.2002	Chrysotile in floor tile and mastic	Damaged	---
1	Frq	Larson Brk	35	Plaster		177	68	Rms 1-10, Lob	Office Pers.	No	03-07-90	Assumed			damaged	
1	Frq	Larson Brk	35	Sheetrock		242	63	Offices/Hall /Br	Office Pers.	No	03-07-90	Assumed			damaged	
1		Larson Brk	35	1'x1' Ceiling Tile				Various			03-07-90	No Asbestos				
1		Larson Brk	35	1'x1' Ceiling Tile				Various			03-07-90	No Asbestos				
1		Larson Brk	35	1'x1' Ceiling Tile				Various			03-07-90	No Asbestos				
1		Larson Brk	35	2'x2' Ceiling Tile				Rm 5			03-07-90	No Asbestos				
1		Larson Brk	35	2'x2' Ceiling Tile				Rm 5			03-07-90	No Asbestos				
1		Larson Brk	35	2'x2' Ceiling Tile				Rm 5			03-07-90	No Asbestos				
1	Frq	Larson Brk	38	Plaster		1020	68	Thruout	Military	No	05-07-90	Assumed			damaged	
1	Frq	Larson Brk	38	12"x12" Floor Tile		56	53	Offices	Military	No	05-07-90	Assumed			UnD	
1		Larson Brk	38	2'x2' Ceiling Tile				Offices, Latrin			05-07-90	No Asbestos				
1		Larson Brk	38	2'x2' Ceiling Tile				Offices, Latrin			05-07-90	No Asbestos				
1		Larson Brk	38	2'x2' Ceiling Tile				Offices, Latrin			05-07-90	No Asbestos				
1	Frq	Larson Brk	39	12"x12" Floor Tile		65	63	Bench Stock, TM	Clerks, Mechanics	No	03-07-90	Assumed			damaged	
1		Larson Brk	39	2'x2' Ceiling Tile				Misc. Rms			03-07-90	No Asbestos				
1		Larson Brk	39	2'x2' Ceiling Tile				Misc. Rms			03-07-90	No Asbestos				
1		Larson Brk	39	2'x2' Ceiling Tile				Misc. Rms			03-07-90	No Asbestos				
B,1	Frq	Larson Brk	39	Plaster		930	68	Thruout	Clerks, Mechanics	No	02-07-90	Assumed			damaged	

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
		Larson Brk	42									No ACM Obs.				
1	Frq	Larson Brk	46	gray 9" x 9" floor tiles with black+white streaks	NA	200 m²	58	Rooms 132, 133, 222-226, 214-216	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	mastic contains also asbestos
1	Frq	Larson Brk	46	Black mastic	NA	200 m²	35	Rooms 132, 133, 222-226, 214-216	administrative	Low		not identified	26-06-02	<10% Chrysotile	Minor damage	floor tile contains asbestos
1	Frq	Larson Brk	46	Brown vinyl floor tiles	NA	18 m²	58	Room 103 (beneath carpet)	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	mastic contains also asbestos
1	Frq	Larson Brk	46	Black mastic	NA	18 m²	35	Room 103 (beneath carpet)	administrative	Low		not identified	26-06-02	<<10% Chrysotile	Minor damage	floor tile contains asbestos
1	Frq	Larson Brk	46	Green 12" x 12" floor tiles with white streaks	NA	30 m²	58	Room 102	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	mastic contains also asbestos
1	Frq	Larson Brk	46	Black mastic	NA	30 m²	35	Room 102	administrative	Low		not identified	26-06-02	<<10% Chrysotile	Minor damage	floor tile contains asbestos
1	Frq	Larson Brk	46	gray 18" x 18" vinyl floor tiles with black + white streaks	NA	300 m²	58	several offices on 1st and 2nd floor	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	Minor damage	Mastic negative
1		Larson Brk	46	Linoleum flooring	NA	NA	NA	1st floor hall (NW)	administrative	NA	1990	Assumed	26-06-02	No Asbestos	NA	no asbestos detected
2	Frq	Larson Brk	46	Green 9" x 9" vinyl floor tiles with white streaks	NA	70 m²	55	2nd floor: Room 212, 213, 228, 229	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	UnD	Mastic negative
2	Frq	Larson Brk	46	Brown 9" x 9" vinyl floor tiles with white streaks	NA	10 m²	55	Room 222, 223	administrative	Nonfriable	1990	Assumed	26-06-02	<10% Chrysotile	UnD	mastic contains also asbestos
2	Frq	Larson Brk	46	Black mastic	NA	10 m²	28	Room 222, 223	administrative	Nonfriable		not identified	26-06-02	<10% Chrysotile	UnD	floor tile contains asbestos
2	Frq	Larson Brk	46	Pipe insulation, burlap / brown mud packing	300 lm	NA	<80	2nd floor offices	administrative	High		not identified	26-06-02	<<10% Amosite	Significant damage	Partially Repaired
attic	Rar	Larson Brk	46	Pipe insulation, burlap / brown mud packing	300 lm	NA	76	attic	administrative	High		not identified	26-06-02	<<10% Amosite	Significant damage	Access limited
2,A	Frq	Larson Brk	46	Wipe sample of pipe insulation debris	NA	NA	69	Attic crawl space, Room 212, 213	administrative	High		not identified	26-06-02	Amosite traces	Debris	---
Basem	Frq	Larson Brk	46	fire doors	2 ea	NA	< 70	Basement	administrative	Enclosed		not identified	26-06-02	Assumed	UnD	---

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Larson Brk	46	Pipe insulation	NA	NA		Basement	administrative	NA	1997	Amosite + Chrysotile	26-06-02	removed	NA	Abated
Heating room		Larson Brk	46	Boiler insulation	NA	NA		Heating room	administrative	NA	1990	2% Crysotile	26-06-02	removed	NA	Abated
Basem	Occ.	Larson Brk	46	Flange gaskets	70 ea	NA	< 70	Room 038 (heating)	administrative	Low		not identified	26-06-02	Assumed	UnD	---
B,A	Frq	Larson Brk	46	Transite-type flue duct	10 lm	NA	55	W' building side, vertical duct from basement to attic	administrative	Nonfriable		not identified	26-06-02	Assumed	UnD	---
all	Frq	Larson Brk	53	Fire door	2 ea	NA	< 70	001, 006	medical	Enclosed		not identified	24-06-02	Assumed	UnD	---
Basem	Occ.	Larson Brk	53	Flange gaskets	15 ea	NA	< 70	006 (mechanical)	medical	Low		not identified	24-06-02	Assumed	UnD	---
Throughout		Larson Brk	53	9" x 9" Vinyl floor tiles	NA	NA		Throughout	medical	NA	1990	Chrysotile	24-06-02	removed	NA	Abated
1	Frq	Larson Brk	55	gray 12" x 12" vinyl floor tiles	NA	8 m²	61	Room 101	warehouse	Nonfriable		not identified	26-06-02	<10% Chrysotile	Significant damage	mastic contains also asbestos
1	Frq	Larson Brk	55	Black mastic	NA	8 m²	70	Room 101	warehouse	Low		not identified	26-06-02	<10% Chrysotile	Significant damage	floor tile contains asbestos
1		Larson Brk	56	9" x 9" dark gray floor tiles with black and white streaks	NA	NA	NA	Room 108 and hallway	veh. Maintenance shop	NA	1990	Assumed	25/06/02	No Asbestos	NA	Mastic negative
1	Frq	Larson Brk	56	9" x 9" light gray floor tiles with black and white streaks	NA	60 m²	55	Room 109, 110, 111	veh. Maintenance shop	Nonfriable	1990	Assumed	25/06/02	10% Chrysotile	UnD	mastic contains also asbestos
1	Frq	Larson Brk	56	Black mastic	NA	60 m²	28	Room 109, 110, 111	veh. Maintenance shop	low		not identified	25/06/02	Chrysotile traces	UnD	floor tile contains asbestos
1	Frq	Larson Brk	56	9" x 9" black floor tiles with white streaks	NA	10 m²	55	Room 106	veh. Maintenance shop	Nonfriable	1990	Assumed	25/06/02	10% Chrysotile	UnD	Mastic negative
2		Larson Brk	56	Green linoleum	NA	NA	NA	Room 201, 202, 203, and hallway	veh. Maintenance shop	NA	1990	Assumed	25/06/02	No Asbestos	NA	no asbestos detected
Room 101B (mechanical)	Occ.	Larson Brk	56	Flange gaskets	20 ea	20 ea	< 70	Room 101B (mechanical)	veh. Maintenance shop	Low		not identified	25-06-02	Assumed	UnD	---

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Larson Brk	57	9" x 9" gray floor tiles with black and white streaks	NA	20 m²	55	Office 102	warehouse	Nonfriable	1990	Assumed	25/06/02	10% Chrysotile	UnD	Mastic negative
1	Frq	Larson Brk	57	9" x 9" dark gray floor tiles with black and white streaks	NA	90 m²	55	Office 101, 103, 104, mechanical room, hall	warehouse	Nonfriable	1990	Assumed	25/06/02	<10% Chrysotile	UnD	Mastic negative
Exterior wall		Larson Brk	57	Transite facade material	NA	NA		Exterior wall	warehouse	NA	1997	25% Chrysotile	25/06/02	removed	NA	Abated
1	Occ.	Larson Brk	57	Flange gaskets	10 ea	NA	< 70	Room 103A (mechanical)	warehouse	Low		not identified	25-06-02	Assumed	UnD	---
Throughout	Frq	Larson Brk	57	Fire doors	3 ea	NA	< 70	Throughout	warehouse	Enclosed		not identified	25-06-02	Assumed	UnD	---
1	Occ.	Larson Brk	59	Flange gaskets	15 ea	NA	< 70	Room 108 (mechanical)	administrative	Low		not identified	25/06/02	Assumed	UnD	---
Throughout	Frq	Larson Brk	59	Fire doors	3 ea	NA	< 70	Throughout	administrative	Enclosed		not identified	25/06/02	Assumed	UnD	---
Throughout		Larson Brk	59	9" x 9" Floor tiles	NA	NA		Throughout	administrative	NA	1990	Assumed	25-06-02	Assumed	NA	Abated
Room 110A (mechanical)	Occ.	Larson Brk	60	Flange gaskets	30 ea	NA	< 70	Room 110A (mechanical)	administrative	Low		not identified	24-06-02	Assumed	UnD	---
Throughout	Frq	Larson Brk	60	Fire doors	6 ea	NA	< 71	Throughout	administrative	Enclosed		not identified	24-06-02	Assumed	UnD	---
Room 111A (mechanical)	Occ.	Larson Brk	61	Flange gaskets	80 ea	NA	< 72	Room 111A (mechanical)	administrative	Low		not identified	27-06-02	Assumed	UnD	---
Room 111A (mechanical)	Occ.	Larson Brk	61	Fire door	1 ea	NA	< 73	Room 111A (mechanical)	administrative	Enclosed		not identified	27-06-02	Assumed	UnD	---
1	Frq	Larson Brk	63	Pipe insulation, 3", white and brown plaster	50 lm	NA		Storage 111	warehouse	High		not identified	26/06/02	Amosite traces	Significant damage	Abated
1		Larson Brk	63	Transite partition walls	NA	NA		1st floor	warehouse	NA	1997	30% Chrysotile	26/06/02	removed	NA	Abated
2		Larson Brk	63	9" x 9" floor tiles	NA	NA		2nd floor	warehouse	NA	1997	4-10% Chrysotile	26-06-02	removed	NA	Abated
Rooms 111, 101	Frq	Larson Brk	63	Fire doors	2 ea	NA	< 70	Rooms 111, 101	warehouse	Enclosed		not identified	26-06-02	Assumed	UnD	---
1	Frq	Larson Brk	66	9" x 9" green floor tiles with black and white streaks	NA	40 m²	61	Office	heating plant	Nonfriable		not identified	21/06/02	10 % Chrysotile	Damaged	Mastic negative

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Floor	***Use***	***Installation:***	***Bldg No.***	***Description:***	***LM***	***SM***	***ALG***	***Rm No.***	***Type of bldg.***	***Fri.***	***Date of survey:***	***Result of survey:***	***Date of resurvey***	***Result of resurvey***	***Cond.***	***Comments***
Boiler hall	Frq	Larson Brk	66	Flange gaskets	100 ea	NA	< 70	Boiler hall	heating plant	Low		not identified	21/06/02	Assumed	UnD	---
Throughout	Frq	Larson Brk	66	Fire doors	3 ea	NA	< 70	Throughout	heating plant	Enclosed		not identified	21/06/02	Assumed	UnD	---
1		Larson Brk	70	Transite panels	NA	NA		Auditorium	theater	NA	1997	Chrysotile	21-06-02	removed	NA	Abated
1		Larson Brk	70	Floor tiles (9"x 9", 12"x12 ")	NA	NA		Auditorium	theater	NA	1997	Chrysotile	21-06-02	removed	NA	Abated
1	Frq	Larson Brk	70	Fire doors	3 ea	NA	< 70	Auditorium, heating room	theater	Enclosed		not identified	21-06-02	Assumed	UnD	---
Mechanical Room		Larson Brk	70	White vibration damper	NA	NA	NA	Mechanical Room	theater	NA	1990	Assumed	21/06/02	No Asbestos	NA	no asbestos detected
1		Larson Brk	71	12" x 12" beige floor tile with brown streaks	NA	140 m²	NA	1st and 2nd floor hallway, and sorage rooms 102 and 103	physical fitness	NA	1990	Assumed	21/06/02	No Asbestos	NA	mastic negative
1		Larson Brk	71	9" x 9" gray floor tile with black and white streaks	NA	70 m²	NA	Room 124, 125	physical fitness	NA	1990	Assumed	21/06/02	No Asbestos	NA	mastic negative
Mechanical room (next to men's latrine)	Occ.	Larson Brk	71	Pipe insulation, 20", green paint / burlap / brown plaster / paper / mineral fiber	5 lm	NA	78	Mechanical room (next to men's latrine)	physical fitness	High		not identified	21/06/02	<10% Amosite	Damaged	tested negative in 1990
Mechanical rooms	Occ.	Larson Brk	71	Flange gaskets	100 ea	NA	< 70	Mechanical rooms	physical fitness	Low		not identified	21-06-02	Assumed	UnD	---
Roof		Larson Brk	71	Corrugated cement roofing panels	NA	1500 m²	13	Roof	physical fitness	Nonfriable	1990	Assumed	21-06-02	Assumed	Minor damage	---
Throughout	Frq	Larson Brk	71	Fire doors	12 ea	NA	< 70	Throughout	physical fitness	Enclosed		not identified	21-06-02	Assumed	UnD	---
		Larson Brk	80									No ACM Obs.				
1	Frq	Larson Brk	90	Sheetrock		9	63	Thruout	Guards	No	05-07-90	Assumed			damaged	
1	Frq	Larson Brk	90	9"x9" Floor Tile		2	63	Thruout	Guards	No	05-07-90	Assumed			damaged	
1	Frq	Larson Brk	99	9" x 9" floor tiles	NA	160 m²	55	1st floor	training simulator	nonfriable	1990	Assumed	27-06-02	Assumed	UnD	---
Mechanical room	Occ.	Larson Brk	99	flange gaskets	20 ea	NA	< 70	Mechanical room	training simulator	moderate		not identified	27-06-02	Assumed	UnD	---
Room 106 (mechanical)	Frq	Larson Brk	100	Flange gaskets	15 ea	NA	< 70	Room 106 (mechanical)	library	Low		not identified	26-06-02	Assumed	UnD	---

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
R 117 (mechanical)	Occ.	Larson Brk	453	Flange gaskets	30 ea	NA	< 70	R 117 (mechanical)	ready building	Low		not identified	26-06-02	Assumed	UnD	---
Throughout	Frq	Larson Brk	453	Fire doors	11 ea	NA	< 70	Throughout	ready building	Enclosed		not identified	26-06-02	Assumed	UnD	---
1	Frq	Larson Brk	453	12" x 12" beige floor tile with brown sreaks	NA	600 m²	55	Throughout 1st and 2nd floor	ready building	Nonfriable	1990	Assumed	26/06/02	<10% Chrysotile	UnD	mastic contains also asbestos
1	Frq	Larson Brk	453	Black mastic	NA	600 m²	28	Throughout 1st and 2nd floor	ready building	Low		not identified	26/06/02	<10% Chrysotile	UnD	floor tile contains asbestos
1	Frq	Larson Brk	453	Transite-type window sill	23 ea	NA	55	Throughout 1st and 2nd floor	ready building	Nonfriable		not identified	26/06/02	10% Chrysotile	UnD	---
1	Frq	Larson Brk	460	Flange gaskets	50 each	NA	< 70	Room 001	heating plant	low		not identified	26-06-02	>50% Chrysotile	UnD	---
Roof		Larson Brk	460	Corrugated cement roofing panels	NA	35 m²	13	Roof	heating plant	Nonfriable		not identified	26-06-02	Assumed	Minor damage	---
		Larson Brk	462									No ACM Obs.				
		Larson Brk	465									No ACM Obs.				
Manhole southwest of Bldg. 23	Rar	Larson Brk	Steam Tunnels	pipe insulation, 8", tar paper / brown plaster	not assessable	not assessable	76	Manhole southwest of Bldg. 23	Steam heating channel	high		not identified	25/06/02	amphibole asbestos traces	Significant damage	Access limited
Manhole west of Bldg. 1	Rar	Larson Brk	Steam Tunnels	pipe insulation, 12", paper+blue mineral fiber	not assessable	not assessable	81	Manhole west of Bldg. 1	Steam heating channel	high		not identified	25/06/02	>90% amphibole asbestos	Significant damage	Access limited
All	Brk	Leighton	1	Plaster		1	50	All	Army Pers.	No	20-11-89	Assumed			UnD	
Hting Rm	Brk	Leighton	1	Pipe Insulation	40			Hting Rm	Army Pers.	Yes	21-06-90	5% Amo.				Abated
Hting Rm	Brk	Leighton	1	Pipe Insulation	40			Hting Rm	N/A	Yes	21-06-90	5% Amo.				Abated
Basem	Brk	Leighton	1	Tank Insulation		9		Hting Rm	Army Pers.	No	20-11-89	Assumed				Abated
Hting Rm		Leighton	1	Pipe Insulation				Hting Rm		Yes	21-06-90	No Asbestos				
All	Brk	Leighton	2	Plaster		1	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
1st, 2nd		Leighton	2	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	2	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	2	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
Basem		Leighton	2	Pipe Insulation				Htng/Tnl Btn 1&2		Yes	17-11-89	No Asbestos				
Basem	Rar	Leighton	2	pipe insulation	200			basement heating room		yes	Nov-89	5% chrysotile	20-Jan-98	visual inspection	UnD	Abated

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Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
Basem	Rar	Leighton	2	pipe insulation	200			basement heating room		yes	Nov-89	5% chrysotile	20-Jan-98	visual inspection	UnD	Abated
Basem	Rar	Leighton	2	pipe insulation	200			basement heating room		yes	Nov-89	5% chrysotile	20-Jan-98	visual inspection	UnD	Abated
1st	Brk	Leighton	3	9"X9" Floor Tile		112	50	Admin. Offices	Army Pers.	No	17-11-89	Assumed			UnD	
All	Brk	Leighton	3	Plaster		1	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
1st	Brk	Leighton	3	Drywall		9	45	Laundry	Army Pers.	No	17-11-89	Assumed			UnD	
1st, 2nd		Leighton	3	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	3	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	3	2'X2' Ceiling Tile				Hallways/Lobby		Yes	17-11-89	No Asbestos				
Basem		Leighton	3	Pipe Insulation				Hting Rm		Yes	17-11-89	No Asbestos				
Basem		Leighton	3	Pipe Insulation				Hting Rm		Yes	17-11-89	No Asbestos				
Basem		Leighton	3	Pipe Insulation				Hting Rm		Yes	17-11-89	No Asbestos				
Basem	Brk	Leighton	4	Pipe Insulation	108			Htng/Bsmnt/Tnl	N/A	Yes	08-12-94	5% Amo.5% Chrys.			Severe Damage	Abated
Basem	Brk	Leighton	4	Pipe Insulation	108			Htng/Bsmnt/Tnl	N/A	Yes	08-12-94	10% Amo.5% Chrys.			Severe Damage	Abated
Basem	Brk	Leighton	4	Pipe Insulation	108			Htng/Bsmnt/Tnl	N/A	Yes	08-12-94	10% Amo.5% Chrys.			Severe Damage	Abated
Basem	Brk	Leighton	4	Pipe Insulation	108			Htng/Bsmnt/Tnl	N/A	Yes	08-12-94	10% Amo.3% Chrys.			Severe Damage	Abated
1st	Brk	Leighton	4	Drywall		28	50	WashRm	N/A	No	17-11-89	Assumed			UnD	
Bs, 2nd	Brk	Leighton	4	9"X9" Floor Tile		121	50	(15,21)(14,15)	Army Pers.	No	17-11-89	Assumed			UnD	
Basem	Brk	Leighton	4	Linoleum		28	50	TV Rm	Army Pers.	No	17-11-89	Assumed			UnD	
All	Brk	Leighton	4	Plaster		1	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
Basem		Leighton	4	Pipe Insulation				Htng/Bsmnt/Tnl		Yes	17-11-89	No Asbestos				
Basem		Leighton	4	Pipe Insulation				Htng/Bsmnt/Tnl		Yes	17-11-89	No Asbestos				
Basem		Leighton	4	Pipe Insulation				Htng/Bsmnt/Tnl		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	4	2'X2' Ceiling Tile				Hllwys/Vrs Rms		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	4	2'X2' Ceiling Tile				Hllwys/Vrs Rms		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	4	2'X2' Ceiling Tile				Hllwys/Vrs Rms		Yes	17-11-89	No Asbestos				
1st, 2nd		Leighton	4	2'X2' Ceiling Tile				Hllwys/Vrs Rms		Yes	17-11-89	No Asbestos				

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
All	Brk	Leighton	5	Drywall		325	50	Thruout	Army Pers.	No	16-11-89	Assumed			UnD	
1, 2	Brk	Leighton	5	Text Wallpaper		307	50	Guest House Rm.	Army Pers.	No	16-11-89	Assumed			UnD	
All	Brk	Leighton	5	Plaster		3	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
Bsment		Leighton	5	Pipe Insulation			90>	All Bsm		Yes	16-11-89	No Asbestos	2001	contains asbestos	Severe Damage	Basement access limited
Bsment		Leighton	5	Pipe Insulation			90>	All Bsm		Yes	16-11-89	No Asbestos	2001	contains asbestos	Severe Damage	Basement access limited
Bsment		Leighton	5	Pipe Insulation			90>	All Bsm		Yes	16-11-89	No Asbestos	2001	contains asbestos	Severe Damage	Basement access limited
kitchen,attic	Frq	Leighton	5	duct insulation		9	67	kitchen/attic		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
B,2	Frq	Leighton	5	9" x 9" floor tiles gray		10	53	kitchen hallway		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
2	Frq	Leighton	5	2' x 2' floor tiles gray		7	53	kitchen hallway		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
all	Frq	Leighton	5	2' x 4' ceiling tiles		93	67	barber shop + various		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
Basem	Rar	Leighton	5	linoleum		9	51	TV-room		no	Nov-89	Assumed	20-Jan-98	visual inspection	light	
Basem	Rar	Leighton	5	2' x 2' ceiling tiles		125	55	TV-room		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
All	Brk	Leighton	6	9"x9" Flr. Tile		976	50	Various	Army Pers.	No	17-11-89	Assumed			UnD	
1st	Brk	Leighton	6	Linoleum/Grey		167	50	Stairs/Hallway	Army Pers.	No	17-11-89	Assumed			UnD	
1st	Brk	Leighton	6	2'x2' Ceil Tile Typ1		358	50	Various	Army Pers.	No	17-11-89	Assumed			UnD	
All	Brk	Leighton	6	Drywall		242	50	Thruout	Army Pers.	No	17-11-89	Assumed			UnD	
All	Brk	Leighton	6	Plaster		3	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
3rd, 2nd		Leighton	6	2'x2' Ceil.Tile Typ2				Trn Rm/Main Entr.		Yes	17-11-89	No Asbestos				
3rd, 2nd		Leighton	6	2'x2' Ceil.Tile Typ2				Trn Rm/Main Entr.		Yes	17-11-89	No Asbestos				
3rd, 2nd		Leighton	6	2'x2' Ceil Tile Typ2				Trn Rm/Mn Entr		Yes	17-11-89	No Asbestos				
3rd		Leighton	6	2'x2' Ceil Tile Typ3				Train. Area		Yes	17-11-89	No Asbestos				
3rd		Leighton	6	2'x2' Ceil Tile Typ3				Train. Area		Yes	17-11-89	No Asbestos				
3rd		Leighton	6	2'x2' Ceil Tile Typ3				Training Area		Yes	17-11-89	No Asbestos				
All	Brk	Leighton	7	Plaster		260	50	All	Army Pers.	No	17-11-89	Assumed			UnD	
1st	Brk	Leighton	7	Pipe Insulation	6			1	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st		Leighton	7	2'X2' Ceiling Tile				Most Rms		Yes	17-11-89	No Asbestos				
1st		Leighton	7	2'X2' Ceiling Tile				Most Rms		Yes	17-11-89	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1st		Leighton	7	2'X2' Ceiling Tile				Most Rms		Yes	17-11-89	No Asbestos				
All	Brk	Leighton	9	Plaster		2	50	All Rms/Not MtrPl	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	9	Flr. Tile 1x1		47	50	Caft	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	9	Linoleum		418	50	Caft./Sports Ctr.	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	9	Ceil. Tile 2'x2'		1	50	Caft./Sports Ctr.	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	9	2'x2' Flr. Tile		465	50	Sports Ctr.	Army Pers.	No	20-11-89	Assumed			UnD	
Basem	Brk	Leighton	9	Pipe Insulation		366		Cr Sh/MtrPl/Htng	Army Pers.	No	15-12-94	No Asbestos			UnD	
All		Leighton	10	Plaster		7435	50	All	Army	No	21-11-89	Assumed			UnD	
1		Leighton	10	Floor Tile		2045	50	Lobby	Army	No	21-11-89	Assumed			UnD	
1		Leighton	10	Ceiling Tile		1998	50	Main	Army	No	21-11-89	Assumed			UnD	
1		Leighton	10	Floor Tile		72	50	Book Store	Army	No	21-11-89	Assumed			UnD	
Basem		Leighton	10	Pipe Insulation		15		Hting	Army	No	21-11-89	Assumed				Abated
All	Brk	Leighton	11	Plaster		2	50	All	Army Pers.	No	21-11-89	Assumed			UnD	
1st, 2nd, 3rd	Brk	Leighton	11	Floor Tile		558	50	Various	Army Pers.	No	21-11-89	Assumed			UnD	
1st, 2nd	Brk	Leighton	11	Ceiling Tile		465	50	Various	Army Pers.	No	21-11-89	Assumed			UnD	
Basem	Brk	Leighton	11	Pipe Insulation	12			Hting Rm	N/A	No	15-12-94	No Asbestos			UnD	
1st	Brk	Leighton	12	2'X2' Floor Tile		46	50	Offices	Army Pers.	No	28-11-89	Assumed			UnD	
Basem	Brk	Leighton	12	2'X2' Ceiling Tile		14	50	Laundromat	Army Pers.	Yes	28-11-89	Assumed			UnD	
All	Brk	Leighton	12	Plaster		1	50	All	Army Pers.	No	28-11-89	Assumed			UnD	
Basem	Brk	Leighton	12	Pipe Insulation	85			Htng/Blw Gas Stn	Army Pers.	No	15-12-94	No Asbestos			UnD	
Basem	Brk	Leighton	13	Pipe Insulation, 4"	46			Tunnel in htrm	Army Pers.	Yes	15-12-94	10%Chr, 10% Amo, 5% Croc			damaged	Abated
All	Brk	Leighton	13	Plaster		2	50	All	Army Pers.	No	28-11-89	Assumed			UnD	
1,2,3	Frq	Leighton	13	9" x 9" floor tiles gray		1608	53	throughout	Army Pers.	no	Nov-89	Assumed	16-Jan-98	visual inspection	UnD	
Basem		Leighton	13	tank insulation		7		basement	Army Pers.	yes	Nov-89	No Asbestos	16-Jan-98	visual inspection	UnD	Abated
1	Frq	Leighton	13	24" x 24" linoleum		25		office 1st floor (room 6)	Army Pers.	no	Nov-89	not identified	16-Jan-98	No Asbestos	UnD	
1	Frq	Leighton	13	24" x 24" linoleum		25		office 1st floor (room 6)	Army Pers.	no	Nov-89	not identified	16-Jan-98	No Asbestos	UnD	
1	Frq	Leighton	13	24" x 24" linoleum		25		office 1st floor (room 6)	Army Pers.	no	Nov-89	not identified	16-Jan-98	No Sample in Container	UnD	

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
Basem	Rar	Leighton	13	pipe insulation 3 inches	128			basement (storage) + attic	Army Pers.	yes	Nov-89	Assumed	16-Jan-98	No Asbestos	light	
Basem	Rar	Leighton	13	pipe insulation 3 inches	128			basement (storage) + attic	Army Pers.	yes	Nov-89	Assumed	16-Jan-98	No Asbestos	light	
Basem	Rar	Leighton	13	pipe insulation 3 inches	128			basement (storage) + attic	Army Pers.	yes	Nov-89	Assumed	16-Jan-98	8% amosite	light	Abated
1st, 2nd	Brk	Leighton	14	9"X9" Floor Tile		248	50	Lbry/Kit/Rec Of.	Army Pers.	No	20-11-89	Assumed			UnD	
All	Brk	Leighton	14	Plaster		6	50	All	Army Pers.	No	20-11-89	Assumed			UnD	
2nd	Brk	Leighton	14	Wall Board		353	50	Library	Army Pers.	No	20-11-89	Assumed	2001	contains asbestos	UnD	
1st	Brk	Leighton	14	1'X1' Floor Tile		279	50	Admin Office	Army Pers.	No	20-11-89	Assumed	2001	contains asbestos	UnD	
2nd	Brk	Leighton	14	2'X2' Floor Tile		25	45	Rec Office	Army Pers.	No	20-11-89	Assumed			UnD	
1st, 2nd	Brk	Leighton	14	Pipe Insulation, 4"	479			Lby/2nd/Rec/Gym	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st	Brk	Leighton	14	Duct Insulation		17		Behind Lanes	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st	Brk	Leighton	14	Tank Insulation		11		Hting Rm	N/A	No	15-12-94	Assumed			NA	
1st		Leighton	14	Wall Board				Bowling Alley		No	20-11-89	No Asbestos				
1st		Leighton	14	Wall Board				Bowling Alley		No	20-11-89	No Asbestos				
1st		Leighton	14	Wall Board				Bowling Alley		No	20-11-89	No Asbestos				
1st	Brk	Leighton	15	Plaster		1	50	All	Army Pers.	No	20-11-89	Assumed			UnD	
Basem	Brk	Leighton	15	1'X1' Floor Tile		837	50	All	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	15	2'X2' Floor Tile		418	50	1/2 Floor	Army Pers.	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	15	2'X2' Ceiling Tile		837	50	All	Army Pers.	No	20-11-89	Assumed			UnD	
Basem	Brk	Leighton	15	Pipe Insulation	27			Hting/Various	Army Pers.	No	15-12-94	No Asbestos			UnD	
1st	Brk	Leighton	16	2'X2' Ceiling Tile		251	50	All	Army Pers.	No	21-11-89	Assumed			UnD	
1st	Brk	Leighton	16	9"X9" Floor Tile		251	50	All	Army Pers.	No	21-11-89	Assumed			UnD	
1st	Brk	Leighton	18	Ceiling Tile		9	50	All	Civilians	No	20-11-89	Assumed			UnD	
1st	Brk	Leighton	18	Plaster		74	50	Thruout	Civilians	No	20-11-89	Assumed			UnD	
1st		Leighton	19	Clng Abv Clng Tl				Thruout		Yes	21-11-89	No Asbestos				
1st		Leighton	19	Clng Abv Clng Tl				Thruout		Yes	21-11-89	No Asbestos				
1st		Leighton	19	Clng Abv Clng Tl				Thruout		Yes	21-11-89	No Asbestos				
1st		Leighton	19	2'X4' Ceiling Tile				Thruout		Yes	21-11-89	No Asbestos				
1st		Leighton	19	2'X4' Ceiling Tile				Thruout		Yes	21-11-89	No Asbestos				
1st		Leighton	19	2'X4' Ceiling Tile				Thruout		Yes	21-11-89	No Asbestos				

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Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
2nd	Brk	Leighton	24	Plaster		339	50	Various	Army Pers.	No	28-11-89	Assumed			UnD	
1st	Brk	Leighton	24	Linoleum/Off Wht		438	50	Various	Army Pers.	No	28-11-89	Assumed			UnD	
1st	Brk	Leighton	24	2'X2' Floor Tile		317	50	Various	Army Pers.	No	28-11-89	Assumed			UnD	
All	Brk	Leighton	24	Wall Board		1	50	Various	Army Pers.	No	28-11-89	Assumed			UnD	
1st		Leighton	24	2'X4' Ceiling Tile				Various		Yes	28-11-89	No Asbestos				
1st		Leighton	24	2'X4' Ceiling Tile				Various		Yes	28-11-89	No Asbestos				
1st		Leighton	24	2'X4' Ceiling Tile				Various		Yes	28-11-89	No Asbestos				
1		Leighton	26	9" by 9" Floor Tile		121	50	Various	Social Workers	No	29-11-89	Assumed			UnD	
1		Leighton	26	Wallboard		446	50	Varies	Social Workers	No	29-11-89	Assumed			UnD	
1		Leighton	26	2 by 2 Ceiling Tile				Various		Yes	29-11-89	No Asbestos				
1		Leighton	26	Ceiling Tile				Various		Yes	29-11-89	No Asbestos				
1		Leighton	26	Ceiling Tile				Various		Yes	29-11-89	No Asbestos				
1,2,3, Bs		Leighton	28	Plaster		3425	50	Thruout	Army	No	30-11-89	Assumed			UnD	
1,2		Leighton	28	Ceiling Tile				Thruout		Yes	30-11-89	No Asbestos				
1,2		Leighton	28	Ceiling Tile				Thruout		Yes	30-11-89	No Asbestos				
1,2		Leighton	28	Ceiling Tile				Thruout		Yes	30-11-89	No Asbestos				
Basem	Frq	Leighton	28	pipe insulation 4 inches	15			heating room	Maintenance	yes	Dec-94	20% chrysotile	20-Jan-98	visual inspection	light	Abated
Basem	Frq	Leighton	28	pipe insulation 8 inches	60			heating room	Maintenance	yes	Dec-94	10% chrysotile	20-Jan-98	visual inspection	light	Abated
1	Frq	Leighton	28	linoleum gray		530	53	throughout		no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
1		Leighton	29	Off White Linolium		88	50	All	Army	No	27-11-89	Assumed			UnD	
1		Leighton	29	Plaster		139	50	Thruout	Army	No	27-11-89	Assumed			UnD	
1		Leighton	29	2 by 2 Ceiling Tile				Thruout		Yes	27-11-89	No Asbestos				
1		Leighton	29	Ceiling Tile				Thruout		Yes	27-11-89	No Asbestos				
1		Leighton	29	Ceiling Tile				Thruout		Yes	27-11-89	No Asbestos				
1,2		Leighton	30	Beige Floor Tile		669	50	Thruout	Army	No	20-11-89	Assumed			UnD	
1,2		Leighton	30	Plaster		2230	50	Thruout	Army	No	20-11-89	Assumed			UnD	
Basem		Leighton	30	Pipe Insulation	35			Varies	Army	NA	15-12-94	Assumed				Abated
3		Leighton	31	Wallboard		242	50	Varies	Army	No	27-11-89	Assumed			UnD	
1,2,3		Leighton	31	Plaster		3976	50	Thruout	Army	No	27-11-89	Assumed			UnD	
1,2,3		Leighton	31	Grey Linolium		1262	50	Thruout	Army	No	27-11-89	Assumed			UnD	
1,2,3, Bs		Leighton	31	Pipe Insulation	656			Varies	Army	No	15-12-94	No Asbestos			UnD	

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
1,2		Leighton	31	Ceiling Tile				Thruout		Yes	27-11-89	No Asbestos				
1,2		Leighton	31	Ceiling Tile				Thruout		Yes	27-11-89	No Asbestos				
1,2		Leighton	31	Ceiling TIle				Thruout		Yes	27-11-89	No Asbestos				
All		Leighton	32	Transite Window Sills		3	55	Varies	Army Personel	No	15-11-89	Assumed			UnD	
All		Leighton	32	Red Floor Tile		279	50	Varies	Army Personel	No	15-11-89	Assumed			UnD	
All		Leighton	32	Tan Floor Tile		744	50	Varies	Army Personel	No	15-11-89	Assumed			UnD	
All		Leighton	32	Plaster		3532	50	All	Army Personel	No	15-11-89	Assumed			UnD	
Basem		Leighton	32	Pipe Insulation	518			Bs	Army Personel	No	15-12-94	No Asbestos			UnD	
All		Leighton	33	Transite Window Sills		3	55	Varies	Army Personel	No	15-11-89	Assumed			UnD	
All		Leighton	33	Grey Floor Tile		1087	50	Varies	Army Personel	No	15-11-89	Assumed			UnD	
All		Leighton	33	Plaster		3532	50	All	Army Personel	No	15-11-89	Assumed			UnD	
Basem		Leighton	33	Pipe Insulation		625		Bs	Army Personel	Yes	15-12-94	No Asbestos			damaged	
Basem		Leighton	33	Tank Insuation		6		Hting Rm	Army Personel	No	15-12-94	No Asbestos			UnD	
1		Leighton	33	Ceiling Tile				104		Yes	15-11-89	No Asbestos				
1		Leighton	33	Ceiling Tile				104		Yes	15-11-89	No Asbestos				
1		Leighton	33	Ceiling Tile				104		Yes	15-11-89	No Asbestos				
1, Bs		Leighton	34	Floor Tile		114		BallRm	Army Personel	No	20-11-89	Assumed			UnD	Abated
All		Leighton	34	Plaster		3011	50	All	Civ.	No	20-11-89	Assumed			UnD	
Attic		Leighton	34	ACPI		259		Varies	Civilians	No	20-11-89	No Asbestos			damaged	
Attic		Leighton	34	ACPI		259		Varies	Civilians	No	20-11-89	No Asbestos			damaged	
Attic		Leighton	34	ACPI		259		Varies	Civilians	No	20-11-89	No Asbestos			damaged	
Basem		Leighton	34	ACPI		259		Varies	Civilians	No	20-11-89	No Asbestos			damaged	
Basem		Leighton	34	ACPI		259		Varies	Civilians	No	20-11-89	No Asbestos			damaged	
1		Leighton	34	Duct Insulation				Kitchen		Yes	20-11-89	No Asbestos				
1		Leighton	34	Duct Insulation				Kitchen		Yes	20-11-89	No Asbestos				
1		Leighton	34	Duct Insulation				Kitchen		Yes	20-11-89	No Asbestos				
1		Leighton	34	Plaster				Varies		Yes	20-11-89	No Asbestos				
1		Leighton	34	Plaster				Varies		Yes	20-11-89	No Asbestos				
1		Leighton	34	Plaster				Varies		Yes	20-11-89	No Asbestos				

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Wire Office		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Wire Office		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Wire Office		Yes	20-11-89	No Asbestos				
1		Leighton	34	Linolium				Offices 3B		Yes	20-11-89	No Asbestos				
1		Leighton	34	Linolium				Offices 3B		Yes	20-11-89	No Asbestos				
1		Leighton	34	Linolium				Offices 3B		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				New Office		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				New Office		Yes	20-11-89	No Asbestos				
N/A		Leighton	34	Ceiling Tile				New Office		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1		Leighton	34	Ceiling Tile				Break Rm		Yes	20-11-89	No Asbestos				
1	Frq	Leighton	34	textured paint		130	62	kitchen	Civilian	no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
Basem	Frq	Leighton	34	9" x 9" floor tiles		114		ballroom + basement (wire office)	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	Abated
1		Leighton	34	2' x 2' white floor tile		90		various rooms	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	visual inspection		Abated
1		Leighton	34	transite exhaust duct		5	22	1st floor near bathroom	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	visual inspection	UnD	
Basem	Rar	Leighton	34	pipe insulation	259			basement + attic	Civilian/Military	yes	Nov-89	5% chrysotile	20-Jan-98	visual inspection	heavy	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	30% Amo.			UnD	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	20% Amo.			UnD	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	20% Amo.5% Chrys.			UnD	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	15% Celluose			UnD	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	10% Cellulose			UnD	Abated
Bs, Attic		Leighton	35	ACPI	549			Thruout	Army Personel	No	15-12-94	15% Cellulose			UnD	Abated
All		Leighton	35	Plaster		2323	50	All	Army Personel	No	29-11-89	Assumed			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Attic		Leighton	35	Duct Wrap				Attic		No	29-11-89	No Asbestos				
Attic		Leighton	35	Duct Wrap				Attic		No	29-11-89	No Asbestos				
Attic		Leighton	35	Duct Wrap				Attic		No		No Asbestos				
all		Leighton	35	9" x 9" floor tile		929		various rooms	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	visual inspection		Abated
Basem	Rar	Leighton	35	tank insulation		18		heating room	Civilian/Military	no	Dec-94	No Asbestos	20-Jan-98	visual inspection	UnD	Abated
1	Tmp	Leighton	35	black window sill		10	53	room next to manager office (1st floor)	Civilian/Military	no	Nov-89	not identified	20-Jan-98	Quantity insufficent for analysis	UnD	
1	Tmp	Leighton	35	black window sill		10	53	room next to manager office (1st floor)	Civilian/Military	no	Nov-89	not identified	20-Jan-98	Quantity insufficent for analysis	UnD	
1	Tmp	Leighton	35	black window sill		10	53	room next to manager office (1st floor)	Civilian/Military	no	Nov-89	not identified	20-Jan-98	Quantity insufficent for analysis	UnD	
1	Kids	Leighton	35	2' x 4' ceiling tile		836		seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	UnD	
1	Kids	Leighton	35	2' x 4' ceiling tile		836		seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	UnD	
1	Kids	Leighton	35	2' x 4' ceiling tile		836		seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	UnD	
1	Kids	Leighton	35	2' x 2' linoleum beige with streaks		280	58	seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Sample in Container	UnD	
1	Kids	Leighton	35	2' x 2' linoleum beige with streaks		280	58	seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Sample in Container	UnD	
1	Kids	Leighton	35	2' x 2' linoleum beige with streaks		280	58	seating area	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Sample in Container	UnD	
Basem	Rar	Leighton	35	wallplaster		40		basement (storage)	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	light	
Basem	Rar	Leighton	35	wallplaster		40		basement (storage)	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	(QC) No Asbestos	light	dupl. of LE-35-04-01
Basem	Rar	Leighton	35	wallplaster		40		basement (storage)	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	light	
Basem	Rar	Leighton	35	wallplaster		40		basement (storage)	Civilian/Military	no	Nov-89	Assumed	20-Jan-98	No Asbestos	light	
Attic	Rar	Leighton	35	pipe insulation	549			attic + basement	Maintenance	yes	Dec-94	30% amosite	20-Jan-98	visual inspection	light	Abated
Attic	Rar	Leighton	35	pipe insulation	549			attic + basement	Maintenance	yes	Dec-94	20% amosite + 5% chrysotile	20-Jan-98	visual inspection	light	Abated
Attic	Rar	Leighton	35	pipe insulation	549			attic + basement	Maintenance	yes	Dec-94	20% amosite	20-Jan-98	visual inspection	light	Abated

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Leighton	36	Tank Insulation				Hting		Yes	15-12-94	No Asbestos				Abated
Basem		Leighton	36	Tank Insulation				Hting		Yes	15-12-94	No Asbestos				Abated
All		Leighton	36	Plaster				All		No	27-11-89	Assumed No ACM				
all	Frq	Leighton	36	floor tiles				throughout	Army Pers.		Dec-94	10% chrysotile	21-Jan-98	visual inspection		Abated
Basem		Leighton	36	pipe insulation		122		heating room	Maintena nce	yes	Dec-94	No Asbestos	20-Jan-98	visual inspection		
Basem		Leighton	36	tank insulation		15		heating room	Maintena nce	yes	Dec-94	10% amosite, 5% chrysotile	21-Jan-98	visual inspection		Abated
Basem		Leighton	36	tank insulation		15		heating room	Maintena nce	yes	Dec-94	10% amosite, 5% chrysotile	21-Jan-98	visual inspection		Abated
1,2,3, Bs		Leighton	37	Plaster		2972	50	All	Army	No	27-11-89	Assumed			UnD	
1,2,3, Bs		Leighton	37	Floor Tile		933	50	Thruout	Army	No	27-11-89	Assumed			UnD	
Basem		Leighton	37	ACPI				Varies	Army	No	27-11-89	5% Amo.2% Chrys.			damaged	Abated
Basem		Leighton	37	ACPI				Varies	Army	No	27-11-89	10% Amo.5% Chrys.			damaged	Abated
Basem		Leighton	37	ACPI				Varies	Army	No	27-11-89	10% Amo.5% Chrys.			damaged	Abated
All		Leighton	38	Plaster		3234	50	All	Army	No	16-11-89	Assumed			UnD	
Basem	Frq	Leighton	38	pipe insulation		181		basement	Army Pers.	yes	Dec-94	10% chrysotile	21-Jan-98	visual inspection	light	Abated
3	Frq	Leighton	38	floor tiles		1059	53	throughout	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	
Basem	Rar	Leighton	39	pipe insulation	689		57	basement		yes	Nov-89	Assumed	22-Jan-98	visual inspection	UnD	94sampled: pipe insulation 4 inch (10% chrys.,15% amos. in boiler room + 20% chrys., 15% croc. Corridor Eastwall
1	Rar	Leighton	39	window sills		20		hallway 1st floor		no	Nov-89	not identified	22-Jan-98	No Asbestos	UnD	throughout
1	Rar	Leighton	39	window sills		20		hallway 1st floor		no	Nov-89	not identified	22-Jan-98	No Asbestos	UnD	throughout
1	Rar	Leighton	39	window sills		20		hallway 1st floor		no	Nov-89	not identified	22-Jan-98	No Asbestos	UnD	throughout
1	Rar	Leighton	39	wallplaster		3234		office 1st floor		no	Nov-89	Assumed	22-Jan-98	No Asbestos	UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Rar	Leighton	39	wallplaster		3234		office 1st floor		no	Nov-89	Assumed	22-Jan-98	No Asbestos	UnD	
1	Rar	Leighton	39	wallplaster		3234		office 1st floor		no	Nov-89	Assumed	22-Jan-98	No Asbestos	UnD	
3	Rar	Leighton	39	9" x 9" floor tile beige		1171	51	throughout		no	Nov-89	Assumed	22-Jan-98	Tile: 3% chrysotile; mastic: 4% chrysotile	light	with mastic
3	Rar	Leighton	39	9" x 9" floor tile beige		1171	51	throughout		no	Nov-89	Assumed	22-Jan-98	Tile: 2% chrysotile; mastic: 3% chrysotile	light	with mastic
3	Rar	Leighton	39	9" x 9" floor tile beige		1171	51	throughout		no	Nov-89	Assumed	22-Jan-98	Tile: 2% chrysotile; mastic: 4% chrysotile	light	with mastic
All		Leighton	40	Plaster		5204	50	All	Army	No	28-11-89	Assumed			UnD	
3		Leighton	40	Acoustical Board				Band		No	28-11-89	No Asbestos				
3		Leighton	40	Acoustical Board				Band		No	28-11-89	No Asbestos				
3		Leighton	40	Acoustical Board				Band		No	28-11-89	No Asbestos				
all		Leighton	40	assumed transite window frames		6		throughout	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	Abated
all		Leighton	40	assumed floor tiles gray		1162		throughout	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	Abated
all		Leighton	40	assumed floor tiles beige		929		throughout	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	Abated
all		Leighton	40	assumed pipe insulation	218			throughout	Army Pers.	yes	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	Abated
all		Leighton	40	assumed boiler insulation		7		throughout	Army Pers.	yes	Nov-89	Assumed	21-Jan-98	visual inspection		Abated
1		Leighton	44	Grey Floor Tiles		6	50	Office	Military	No	21-11-89	Assumed			UnD	
All		Leighton	45	Acoustical Board				Atn. Stodio		Yes	28-11-89	No Asbestos				
All		Leighton	45	Acoustical Board				Atn. Studio		Yes	28-11-89	No Asbestos				
All		Leighton	45	Acoustical Board				Atn. Studio		Yes	28-11-89	No Asbestos				
All		Leighton	45	Pipe Insulation				All		Yes	28-11-89	No Asbestos				
All		Leighton	45	Pipe Insulation				All		Yes	28-11-89	No Asbestos				
All		Leighton	45	Pipe Insulation				All		Yes	28-11-89	No Asbestos				
1	Frq	Leighton	45	24" x 24" ceiling tile		20	67	office 1st floor	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	
1		Leighton	45	1' x 1' floor tile gray		42	53	office 1st floor	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	under carpet
1		Leighton	45	linoleum, gray		14	53	office 1st floor	Army Pers.	no	Nov-89	Assumed	21-Jan-98	visual inspection	UnD	
Basem		Leighton	45	assumed boiler insulation and assumed boiler metal wrap		32		boiler room	Maintena nce	yes	Nov-89	Assumed	21-Jan-98	visual inspection		Abated

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1	Frq	Leighton	45	12" x 12" floor tiles beige		112	53	various rooms	Army Pers.	no	Nov-89	Assumed	21-Jan-98	No Sample in Container	UnD	
1	Frq	Leighton	45	12" x 12" floor tiles beige		112	53	various rooms	Army Pers.	no	Nov-89	Assumed	21-Jan-98	No Asbestos	UnD	
1	Frq	Leighton	45	12" x 12" floor tiles beige		112	53	various rooms	Army Pers.	no	Nov-89	Assumed	21-Jan-98	Tile: ND; mastic: 2% chrysotile	UnD	
All		Leighton	47	Floor Tile		333	50	Thruout	Army	No	28-11-89	Assumed			UnD	
All		Leighton	47	Plaster		3206	50	All	Army	No	28-11-89	Assumed			UnD	
All		Leighton	47	Linolium		149	50	Thruout Annex	Army	No	28-11-89	Assumed			UnD	
1 Annex		Leighton	47	Floor Tile		16	50	Thruout	Army	No	28-11-89	Assumed			UnD	
Basem		Leighton	47	Tank Insulation		6		Annex Hting	Army	No	15-12-94	No Asbestos			UnD	
All		Leighton	47	Pipe Insulation				Thruout		Yes	15-12-94	No Asbestos				
All		Leighton	47	Pipe Insulation				Thruout		Yes	15-12-94	No Asbestos				
All		Leighton	47	Pipe Insulation				Throughou ut		Yes	15-12-94	No Asbestos				
All		Leighton	47	Ceiling Tile				Main		No	28-11-89	No Asbestos				
All		Leighton	47	Ceiling Tile				Main		No	28-11-89	No Asbestos				
All		Leighton	47	Ceiling Tile				Main		No	28-11-89	No Asbestos				
All		Leighton	47	Ceiling Tile				Main		No	28-11-89	No Asbestos				
1		Leighton	49	Dry Wall		372	50	Various	Army	No	20-11-89	Assumed			UnD	
All		Leighton	49	Plaster		2788	50	All	Army	No	20-11-89	Assumed			UnD	
1		Leighton	49	Ceiling Tile		176	50	Various	Army	No	20-11-89	Assumed			UnD	
1		Leighton	49	Floor Tile		279	50	Various	Army	No	20-11-89	Assumed			UnD	
1, Bs		Leighton	49	Pipe Insulation		731		Bay Area	Army	No	15-12-94	No Asbestos			UnD	
Basem		Leighton	49	Boiler Insulation		205		Hting	N/A	No	15-12-94	No Asbestos			NA	
Basem		Leighton	49	Pipe Insulation			90>	Hting		yes	22-06-05	Contains Asbestos			Severely Damaged	Access limited
1, Roof		Leighton	51	Transite Window Sills		64	55	Thruout	Civ.	No	27-11-89	Assumed			UnD	
1		Leighton	51	Ceiling Wallboard		56	50	All	Civ.	No	27-11-89	Assumed			UnD	
1		Leighton	51	8		111	50	All	Civ.	No	27-11-89	Assumed			UnD	
Roof		Leighton	54	Transite Panels		102		All	Civ.	No	N/A	Assumed			UnD	Abated
All		Leighton	54	Wall Plaster		167	50	Thruout	Civ.	No	N/A	Assumed			UnD	
1		Leighton	56	Floor Tile		177	50	Various	Army	No	29-11-89	Assumed			UnD	
1		Leighton	56	Linolium/Green		9	50	6	Army & Civ.	No	29-11-89	Assumed			UnD	
1		Leighton	56	Ceiling Tile Spline		72	50	Varies	Army	Yes	29-11-89	Assumed			UnD	
1		Leighton	56	Plaster		1426	50	All	Army & Civ.	No	29-11-89	Assumed			UnD	
1		Leighton	65	Plaster		548	50	Thruout	Civ. & Army	No	29-11-89	Assumed			UnD	
1		Leighton	65	Ceiling Tile		14	50	Varies	Civ. & Army	Yes	29-11-89	Assumed			UnD	

417th BSB Asbestos Survey

Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
1		Leighton	65	Wallboard		47	50	Varies	Civ. & Army	No	29-11-89	Assumed			UnD	
1		Leighton	65	Floor Tile		225	50	Varies	Civ. & Army	No	29-11-89	Assumed			UnD	
Roof		Leighton	65	Transite Roof Panels		511	43	Roof	Civ & Army	No	29-11-89	Assumed			UnD	
1		Leighton	65	Ceiling Tile				Varies		Yes	29-11-89	No Asbestos				
1		Leighton	65	Ceiling Tile				Varies		Yes	29-11-89	No Asbestos				
1		Leighton	65	Ceiling Tile				Varies		Yes	29-11-89	No Asbestos				
Basem	Rar	Leighton	76	pipe insulation 7 inches	11			heating room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	76	pipe insulation 7 inches	11			heating room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	76	pipe insulation 7 inches	11			heating room	Maintenance	yes	07-Jan-98	No Asbestos			light	
All		Leighton	85	Plaster		1478	50	All	Army Personel	No	29-11-89	Assumed			UnD	
All		Leighton	86	Plaster		1478	50	All	Army Personel	No	29-11-89	Assumed			UnD	
Basem		Leighton	87	Ceiling Tile		47	45	Hallway	Army	No	30-11-89	Assumed			UnD	
1		Leighton	87	Linolium		242	45	Chapel	Army	No	30-11-89	Assumed			UnD	
1		Leighton	87	Plaster		93	45	Chapel	Army	No	30-11-89	Assumed			UnD	
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile Type 2				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile Type 2				Conference		Yes	30-11-89	No Asbestos				
Basem		Leighton	87	Ceiling Tile Tyoe 2				Conference		Yes	30-11-89	No Asbestos				
Roof		Leighton	88	Transite Roof		465	43	Roof	Army	No	30-11-89	Assumed			UnD	
1		Leighton	88	Grey Floor Tile		60	38	Various	Army	No	30-11-89	Assumed			UnD	
Basem		Leighton	88	Pipe Insulation	15			Hting	Army	No	15-12-94	Assumed				Abated
1		Leighton	88	Ceiling Tile				Main		Yes	30-11-89	No Asbestos				
1		Leighton	88	Ceiling Tile				Main		Yes	30-11-89	No Asbestos				
1		Leighton	88	Ceiling Tile				Main		Yes	30-11-89	No Asbestos				
1		Leighton	88	Drywall				Main		Yes	30-11-89	No Asbestos				
1		Leighton	88	Drywall				Main		Yes	30-11-89	No Asbestos				

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
1		Leighton	88	Drywall				Main		Yes	30-11-89	No Asbestos				
1		Leighton	97	Green Linolium		67	50	Main	Army	No	27-11-89	Assumed			UnD	
1		Leighton	97	Floor Tile		16	50	Office	Army	Np	27-11-89	Assumed			UnD	
1		Leighton	97	Drywall		205	50	Ceiling	Army	No	27-11-89	Assumed			UnD	
1		Leighton	97	Tar Paper				Main		Yes	27-11-89	No Asbestos				
1		Leighton	97	Tar Paper				Main		Yes	27-11-89	No Asbestos				
1		Leighton	97	Tar Paper				Main		Yes	27-11-89	No Asbestos				
Basem		Leighton	101	boiler insulation		17		boiler room	Maintenance	no	Nov-89	Assumed	07-Jan-98	visual inspection		Abated
All		Leighton	101	Plaster		4043	55	All	Military Personal	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	101	Linoleum		372	55	BathRm, Kitchen	Military Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	101	Pipe Insulation		198		Bs	Military Personel	No	15-12-94	Gone				Abated
Basem	Rar	Leighton	102	pipe insulation 5 inches	12			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	102	pipe insulation 5 inches	12			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	102	pipe insulation 5 inches	12			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	102	wall plaster		88		boiler room	Maintenance	no	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	102	wall plaster		88		boiler room	Maintenance	no	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	102	wall plaster		88		boiler room	Maintenance	no	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	103	pipe insulation 3 inches	12			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	103	pipe insulation 3 inches	12			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	(QC) No Asbestos	light	Abated
Basem	Rar	Leighton	103	pipe insulation 3 inches	12			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	103	pipe insulation 3 inches	12			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	103	gasket		0.3	55	boiler room	Maintenance	no	Nov-89	not identified	07-Jan-98	70% chrysotile	UnD	
Basem	Rar	Leighton	103	gasket		0.3	55	boiler room	Maintenance	no	Nov-89	not identified	07-Jan-98	70% chrysotile	UnD	
Basem	Rar	Leighton	103	gasket		0.3	55	boiler room	Maintenance	no	Nov-89	not identified	07-Jan-98	70% chrysotile	UnD	
All		Leighton	103	Plaster		4089	55	All	Military Personel	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	103	Linoleum Floor		372	55	BathRm, Kitchen	Military Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	103	Pipe Insulation		220		Mech rm. W	Military Personel	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	104	pipe insulation 4 inches	12			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	104	pipe insulation 4 inches	12			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	104	pipe insulation 4 inches	12		67	boiler room	Maintenance	yes	07-Jan-98	<1% amosite			light	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Rar	Leighton	105	pipe insulation 4 inches	6			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	105	pipe insulation 4 inches	6			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	105	pipe insulation 4 inches	6			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	105	pipe insulation 4 inches	6			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
All		Leighton	105	Plaster		4043	55	All	Military Personal	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	105	Linoleum Floor		372	55	BathRm, Kitchen	Army Presonel	No	11/30/89	Assumed			UnD	
Basem		Leighton	105	Pipe Insulation		253		Mech rm, W	Military Families	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	106	pipe insulation 4 inches	13			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	106	pipe insulation 4 inches	13			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	106	pipe insulation 4 inches	13			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	107	pipe insulation 4 inches	10			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	107	pipe insulation 4 inches	10			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	<1% amosite	light	Abated
Basem	Rar	Leighton	107	pipe insulation 4 inches	10			boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	No Asbestos	light	Abated
All		Leighton	107	Plaster		4043	55	All	Army Personal	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	107	Linoleum		372	55	BathRm, Kitchen	Army Personal	No	11/30/89	Assumed			UnD	
Basem		Leighton	107	Pipe Insulation		232		Mech rm, SW	Army Personel	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	108	pipe insulation 3 inches	10			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	behind a wall/tunnel
Basem	Rar	Leighton	108	pipe insulation 3 inches	10			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	behind a wall/tunnel
Basem	Rar	Leighton	108	pipe insulation 3 inches	10			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	behind a wall/tunnel
Basem	Rar	Leighton	108	pipe insulation 3 inches	10			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	behind a wall/tunnel, dupl. of WFH-108-01-03
Basem		Leighton	109			17		boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	visual inspection		Abated
All		Leighton	109	Plaster		4043	55	All	Army Personal	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	109	Linoleum		372	55	Kitchen, BathRm	Army Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	109	Boiler Insulation		17	53	Hting Rm	Army Families	No	11/30/89	Assumed			UnD	
Basem		Leighton	109	Pipe Insulation		201		Bs	Army Personel	No	15-12-94	Gone				Abated
Basem	Rar	Leighton	110	pipe insulation 4 inches	5			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	110	pipe insulation 4 inches	5			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	110	pipe insulation 4 inches	5			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Leighton	111	boiler insulation		17		boiler room	Maintenance	yes	Nov-89	Assumed	07-Jan-98	visual inspection	light	Abated
1,2,3,4		Leighton	111	Linoleum		372	55	Kitchen, BathRm	Army Personel	No	11/30/89	Assumed			UnD	
All		Leighton	111	Plaster		5994	55	All	Army Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	111	Pipe Insulation				Bs		Yes	15-12-94	No Asbestos				
Basem		Leighton	111	Pipe Insulation				Bs		Yes	15-12-94	No Asbestos				
Basem		Leighton	111	Pipe Insulation				Bs		Yes	15-12-94	No Asbestos				
Basem	Rar	Leighton	112	pipe insulation 4 inches	15			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	112	pipe insulation 4 inches	15			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	112	pipe insulation 4 inches	15			boiler room	Maintenance	yes	07-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	113	pipe insulation 4 inches	17			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	light	Abated
Basem	Rar	Leighton	113	pipe insulation 4 inches	17			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	<1 % amosite	light	Abated
Basem	Rar	Leighton	113	pipe insulation 4 inches	17			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	<1% amosite	light	Abated
Basem	Rar	Leighton	113	wall plaster		90		boiler room	Maintenance	no	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
Basem	Rar	Leighton	113	wall plaster		90		boiler room	Maintenance	no	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
Basem	Rar	Leighton	113	wall plaster		90		boiler room	Maintenance	no	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
Basem		Leighton	113	Pipe Insulation		252	76	Mech Rm	Army Personel	Yes	15-12-94	5% Amosite			UnD	
1,2,3,4		Leighton	113	Linoleum Floor		372	55	Kitchen, BathRm	Army Personel	No	11/30/89	Assumed			UnD	
Basem	Rar	Leighton	114	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	114	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	114	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
1,2,3,4		Leighton	115	Linoleum		372	55	Kitchen, BathRm	Army Personel	No	11/30/89	Assumed			UnD	
All		Leighton	115	Plaster		3996	55	All	Army Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	115	Pipe Insulation		271		Bs	Families	No	15-12-94	Gone				Abated
Basem		Leighton	115	Boiler Insulation		17		Hting Rm	Families	No	15-12-94	Gone				Abated
Basem	Rar	Leighton	116	pipe insulation 4 inches	13			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	116	pipe insulation 4 inches	13			boiler room	Maintenance	yes	08-Jan-98	(QC) no Asbestos			light	dupl. of WFH-116-01-01
Basem	Rar	Leighton	116	pipe insulation 4 inches	13			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	116	pipe insulation 4 inches	13			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
1,2,3,4		Leighton	117	Linoleum Floor		372	55	Kitchen, BathRm	Army Personel	No	11/30/89	Assumed			UnD	
All		Leighton	117	Plaster		3996	55	All	Army Personel	No	11/30/89	Assumed			UnD	

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
Basem		Leighton	117	Pipe Insulation		232		Thruout	Families	No	15-12-94	Gone				Abated
Basem	Rar	Leighton	118	pipe insulation 3 inches	2			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	118	pipe insulation 3 inches	2			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	118	pipe insulation 3 inches	2			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	119	pipe insulation 4 inches	17			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	UnD	
Basem	Rar	Leighton	119	pipe insulation 4 inches	17			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	UnD	
Basem	Rar	Leighton	119	pipe insulation 4 inches	17		57	boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	2% amosite	UnD	
All		Leighton	119	Plaster		5994	55	All	Army Personel	No	11/30/89	Assumed			UnD	
1,2,3,4		Leighton	119	Linoleum Floor		372	55	BathRm, Kitchen	Army Personel	No	11/30/89	Assumed			UnD	
Basem		Leighton	119	Pipe Insulation		335		Mech Rm.	Army Presonal	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	120	pipe insulation 4 inches	16			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	120	pipe insulation 4 inches	16			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	120	pipe insulation 4 inches	16			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	dupl. of WFH-120-01-02
Basem	Rar	Leighton	120	pipe insulation 4 inches	16			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
1,2,3,4		Leighton	121	Linoleum Floor		372	55	BathRm, Kitchen	Army Personal	No	11/30/89	Assumed			UnD	
Basem		Leighton	121	Pipe Insulation				All		Yes	11/30/89	No Asbestos			damaged	
Basem		Leighton	121	Pipe Insulation				All		Yes	11/30/89	No Asbestos			damaged	
Basem		Leighton	121	Pipe Insulation				All		Yes	11/30/89	No Asbestos			damaged	
Basem	Rar	Leighton	122	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	122	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	122	pipe insulation 3 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	122	pipe insulation 3 inches	1			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	123	pipe insulation	9			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
Basem	Rar	Leighton	123	pipe insulation	9			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
Basem	Rar	Leighton	123	pipe insulation	9			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	heavy	
All	Hsg	Leighton	123	Plaster		3996	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,4	Hsg	Leighton	123	Linoleum Floor		372	55	Kitchens,Bathrms	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	123	Pipe Insulation	299			Mech Rm.	Families	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	124	pipe insulation 3 inches	10			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Rar	Leighton	124	pipe insulation 3 inches	10			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	124	pipe insulation 3 inches	10			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	dupl. of WFH-124-01-02
Basem	Rar	Leighton	124	pipe insulation 3 inches	10			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	125	pipe insulation 4 inches	5			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	UnD	
Basem	Rar	Leighton	125	pipe insulation 4 inches	5			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	UnD	
Basem	Rar	Leighton	125	pipe insulation 4 inches	5			boiler room	Maintenance	yes	Nov-89	Assumed	08-Jan-98	No Asbestos	UnD	
All	Hsg	Leighton	125	Plaster		3996	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,4	Hsg	Leighton	125	Linoleum Floor		372	55	Kitchens,Bathrms	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	125	Pipe Insulation	280			Thruout	Families	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	126	pipe insulation 3 inches	5			boiler room	Maintenance	yes	08-Jan-98	<1% amosite			heavy	Abated
Basem	Rar	Leighton	126	pipe insulation 3 inches	5			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	126	pipe insulation 3 inches	5			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	
1,2,3,4	Hsg	Leighton	127	Linoleum Floor		372	55	Kitchens,Bathrms	Army Pers.	No	12/1/89	Assumed			UnD	
All	Hsg	Leighton	127	Plaster		3996	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem		Leighton	127	Boiler Insulation				Hting Rm		Yes	12/1/89	No Asbestos				
Basem		Leighton	127	Boiler Insulation				Hting Rm		Yes	12/1/89	No Asbestos				
Basem		Leighton	127	Boiler Insulation				Hting Rm		Yes	12/1/89	No Asbestos				
Basem		Leighton	127	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	127	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	127	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem	Rar	Leighton	129	pipe insulation 4 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	129	pipe insulation 4 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	129	pipe insulation 4 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	129	pipe insulation 4 inches	8			boiler room	Maintenance	yes	08-Jan-98	No Asbestos			heavy	dupl. of WFH-129-01-03
Basem	Rar	Leighton	129	wall plaster		90		boiler room	Maintenance	no	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	129	wall plaster		90		boiler room	Maintenance	no	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	129	wall plaster		90		boiler room	Maintenance	no	08-Jan-98	No Asbestos			heavy	
Basem	Rar	Leighton	130	pipe insulation 3 inches	5			boiler room	Maintenance	yes	Dec-89	Assumed	08-Jan-98	No Asbestos	light	
Basem	Rar	Leighton	130	pipe insulation 3 inches	5			boiler room	Maintenance	yes	Dec-89	Assumed	08-Jan-98	No Asbestos	light	

APPENDIX D

417th BSB Asbestos Survey																
Floor	*Use*	*Installation:*	*Bldg No.*	*Description:*	*LM*	*SM*	*ALG*	*Rm No.*	*Type of bldg.*	*Fri.*	*Date of survey:*	*Result of survey:*	*Date of resurvey*	*Result of resurvey*	*Cond.*	*Comments*
Basem	Rar	Leighton	130	pipe insulation 3 inches	5			boiler room	Maintenance	yes	Dec-89	Assumed	08-Jan-98	No Asbestos	light	
All	Hsg	Leighton	130	Plaster		3996	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,4	Hsg	Leighton	130	Linoleum Floor		372	55	Kitchens,Bathrms	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	130	Pipe Insulation	293			Thruout	Families	No	15-12-94	No Asbestos			UnD	
Basem	Rar	Leighton	131	pipe insulation 4 inches	2		67	boiler room	Maintenance	yes	08-Jan-98	<1% amosite			light	
Basem	Rar	Leighton	131	pipe insulation 4 inches	2		67	boiler room	Maintenance	yes	08-Jan-98	2% amosite			light	
Basem	Rar	Leighton	131	pipe insulation 4 inches	2		67	boiler room	Maintenance	yes	08-Jan-98	<1% chrysotile, 2% amosite			light	
Basem	Rar	Leighton	131	fire brick		0.5		boiler room	Maintenance	yes	08-Jan-98	No Asbestos			light	
Basem	Rar	Leighton	131	fire brick		0.5		boiler room	Maintenance	yes	08-Jan-98	(QC) no Asbestos			light	dupl. of WFH-131-02-01
Basem		Leighton	132	boiler insulation		17		boiler room	Maintenance	yes	Dec-89	Assumed	09-Jan-98	visual inspection		Abated
1,2,3,4	Hsg	Leighton	132	Linoleum Floor		372	55	Kitchens,Bathrms	Army Pers.	No	12/1/89	Assumed			UnD	
All	Hsg	Leighton	132	Plaster		4833	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	132	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
All	Hsg	Leighton	136	Plaster		558	50	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem		Leighton	136	Pipe Insulation				Thruout		No	12/1/89	No Asbestos				
Basem		Leighton	136	Pipe Insulation				Thruout		No	12/1/89	No Asbestos				
Basem		Leighton	136	Pipe Insulation				Thruout		No	12/1/89	No Asbestos				
Basem	Tmp	Leighton	138	pipe insulation 3 inches	17			boiler room	Army Pers.	yes	Dec-94	No Asbestos	09-Jan-98	No Asbestos	UnD	
Basem	Tmp	Leighton	138	pipe insulation 3 inches	17			boiler room	Army Pers.	yes	Dec-94	No Asbestos	09-Jan-98	No Asbestos	UnD	
Basem	Tmp	Leighton	138	pipe insulation 3 inches	17			boiler room	Army Pers.	yes	Dec-94	No Asbestos	09-Jan-98	No Asbestos	UnD	
All	Hsg	Leighton	138	Plaster		469	50	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Tmp	Leighton	139	No suspect material found				boiler room	Family Housing		13-Jan-98					
All	Hsg	Leighton	140	Plaster		465	55	All	Army Pers.	No	12/1/89	Assumed			UnD	

APPENDIX D

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem		Leighton	140	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	140	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem		Leighton	140	Pipe Insulation				Thruout		Yes	12/1/89	No Asbestos				
Basem	Hsg	Leighton	142	Pipe Insulation	86		60	Thruout	Army Pers.	No	15-12-94	Assumed-No access			UnD	
All	Hsg	Leighton	142	Plaster		465	50	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Tmp	Leighton	143	No suspect material found				boiler room	Family Housing		09-Jan-98					
All	Hsg	Leighton	144	Plaster		465	50	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	144	Pipe Insulation		86		Bedroom	Army Pers.	No	15-12-94	No Asbestos			UnD	
Basem	Tmp	Leighton	145	pipe insulation 3 inches	0.5			boiler room (145 B)	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	
All	Hsg	Leighton	146	Plaster		468	50	All	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	146	Pipe Insulation		86		Unit A, NW	Army Pers.	No	15-12-94	No Asbestos			UnD	
Roof		Leighton	147	N/A		197	43	Roof	Army	No	30-11-89	Assumed			UnD	
1		Leighton	150	Linolium		121	50	Various	Civ.	No	30-11-89	Assumed			UnD	
1		Leighton	150	Floor Tile		100	50	Various	Civ.	No	30-11-89	Assumed			UnD	
1		Leighton	150	Roof Insulation				Ceiling Inside		Yes	30-11-89	No Asbestos				
1		Leighton	150	Roof Insulation				Ceiling Inside		Yes	30-11-89	No Asbestos				
1		Leighton	150	Roof Insulation				Ceiling Inside		Yes	30-11-89	No Asbestos				
1		Leighton	150	Drywall				Walls		Yes	30-11-89	No Asbestos				
1		Leighton	150	Drywall				Walls		Yes	30-11-89	No Asbestos				
1		Leighton	150	Drywall						Yes	30-11-89	No Asbestos				
1		Leighton	157	Floor Tile		5	50	Main	Army	No	21-11-89	Assumed			UnD	
1		Leighton	343	Floor Tile		100	50	Thruout	Army	No	10-11-89	Assumed			UnD	
Basem	Tmp	Leighton	351	No suspect material found				boiler room	Family Housing		09-Jan-98					
Basem		Leighton	352	boiler insulation		33		boiler room	Family Housing	yes	Dec-89	Assumed	09-Jan-98	visual inspection		Abated
All	Hsg	Leighton	352	Plaster		4368	55	Hall	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,Attic	Hsg	Leighton	352	Linoleum Floor		395	50	Kitchens	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	352	Pipe Insulation	336			Thruout	Army Pers.	No	15-12-94	Gone				Abated
Basem	Tmp	Leighton	353	No suspect material found				boiler room	Family Housing		09-Jan-98					
Basem		Leighton	354	boiler insulation		33		boiler room	Family Housing	yes	Dec-89	Assumed	09-Jan-98	visual inspection		Abated
All	Hsg	Leighton	354	Plaster		4368	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,Attic	Hsg	Leighton	354	Linoleum Floor		395	55	Kitchens	Army Pers.	No	12/1/89	Assumed			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Hsg	Leighton	354	Pipe Insulation	336			Thruout	Army Pers.	No	15-12-94	Gone				Abated
Basem	Rar	Leighton	355	pipe insulation 3 inches	0.5			boiler room	Family Housing	yes	09-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	355	pipe insulation 3 inches	0.5			boiler room	Family Housing	yes	09-Jan-98	(QC) no Asbestos			UnD	dupl. of WFH-355-01-01
Basem	Rar	Leighton	355	pipe insulation 4 inches	5			boiler room	Family Housing	yes	09-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	355	pipe insulation 4 inches	5			boiler room	Family Housing	yes	09-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	355	pipe insulation 4 inches	5			boiler room	Family Housing	yes	09-Jan-98	No Asbestos			UnD	
Basem	Rar	Leighton	356	pipe insulation 4 inches	0.5			boiler room	Family Housing	yes	Dec-89	Assumed	09-Jan-98	No Asbestos	UnD	
All	Hsg	Leighton	356	Plaster		4368	55	All	Army Pers.	No	12/1/89	Assumed			UnD	
1,2,3,Attic	Hsg	Leighton	356	Linoleum Floor		395	55	kitchens	Army Pers.	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	356	Pipe Insulation	336			Thruout	Army Pers.	No	15-12-94	Gone				Abated
Basem		Leighton	401	no suspect material found				boiler room	Family Housing		13-Jan-98					
Basem	Rar	Leighton	402	boiler gasket		0.5	55	boiler room	Family Housing	no	Dec-89	10% chrysotile	13-Jan-98	visual inspection	UnD	
1,2,3	Hsg	Leighton	402	12"x12" Floor Tile		660	55	Kitchens,Bedrms	Families	No	12/1/89	Assumed			UnD	
All	Hsg	Leighton	402	Plaster		3996	55	All	Families	No	12/1/89	Assumed			UnD	
1,2,3	Hsg	Leighton	403	12"x12" Floor Tile		660	55	Kitchens,Bedrms	Families	No	12/1/89	Assumed			UnD	
All	Hsg	Leighton	403	Plaster		3996	55	All	Families	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	403	Boiler Insulation		17		Hting Rm	Families	No	15-12-94	Gone				Abated
1,2,3	Hsg	Leighton	404	12"x12" Floor Tile		660	55	Kitchens,Bedrms	Families	No	12/1/89	Assumed			UnD	
All	Hsg	Leighton	404	Plaster		3996	55	All	Families	No	12/1/89	Assumed			UnD	
Basem	Hsg	Leighton	404	Boiler Insulation		17		Hting Rm	Families	No	15-12-94	Gone				Abated
Basem		Leighton	405	no suspect material found				boiler room	Family Housing		13-Jan-98					
Basem		Leighton	406	no suspect material found/no samples taken				boiler room	Family Housing		14-Jan-98					
Basem	Tmp	Leighton	135A	pipe insulation 4 inches	10			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	at building 135 B no suspected material found
Basem	Tmp	Leighton	135A	pipe insulation 4 inches	10			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	at building 135 B no suspected material found
Basem	Tmp	Leighton	135A	pipe insulation 4 inches	10			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	at building 135 B no suspected material found
Basem	Tmp	Leighton	135A	pipe insulation 3 inches	12			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	

417th BSB Asbestos Survey

Floor	Use	Installation:	Bldg No.	Description:	LM	SM	ALG	Rm No.	Type of bldg.	Fri.	Date of survey:	Result of survey:	Date of resurvey	Result of resurvey	Cond.	Comments
Basem	Tmp	Leighton	135A	pipe insulation 3 inches	12			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	
Basem	Tmp	Leighton	135A	pipe insulation 3 inches	12			former boiler room	Army Pers.	yes	13-Jan-98	No Asbestos			UnD	
Basem	Tmp	Leighton	137B	pipe insulation 2 inches	3			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	no suspect material found in bldg. 137A
Basem	Tmp	Leighton	137B	pipe insulation 2 inches	3			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	no suspect material found in bldg. 137A
Basem	Tmp	Leighton	137B	pipe insulation 2 inches	3			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	no suspect material found in bldg. 137A
Basem	Tmp	Leighton	137B	pipe insulation 3 inches	9			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	
Basem	Tmp	Leighton	137B	pipe insulation 3 inches	9			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	
Basem	Tmp	Leighton	137B	pipe insulation 3 inches	9			boiler room	Army Pers.	yes	09-Jan-98	No Asbestos			UnD	
1st	Brk	Leighton	Thru out	Plaster		176	50	Thruout	Civilians	No	21-11-89	Assumed			UnD	
1		Wuerzburg	346	Floor Tile		4	50	Main	Army	No	09-11-89	Assumed			UnD	
1		Wuerzburg Hospital	343	Plaster		651	50	All	Army	No	10-11-89	Assumed			UnD	
1		Wuerzburg Hospital	343	Pipe Insulation				PLO Office		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Pipe Insulation				PLO Office		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Pipe Insulation				PLO Office		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Pipe Insulation				PLO Office		Yes	10-11-89	No Asbestos				
Atttic		Wuerzburg Hospital	343	Pipe Insulation				Motorpool		Yes	10-11-89	No Asbestos				
Attic		Wuerzburg Hospital	343	Pipe Insulation				Motorpool		Yes	10-11-89	No Asbestos				
Attic		Wuerzburg Hospital	343	Pipe Insulation				Motorpool		Yes	10-11-89	No Asbestos				
Attic		Wuerzburg Hospital	343	Pipe Insulation				Motorpool		Yes	10-11-89	No Asbestos				
Attic		Wuerzburg Hospital	343	Pipe Insulation				Motorpool		Yes	10-11-89	No Asbestos				
Attic		Wuerzburg Hospital	343	Pipe Insulation Type 3				Motorpool		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Tar Paper				PLO Office		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Tar Paper				PLO Office		Yes	10-11-89	No Asbestos				
1		Wuerzburg Hospital	343	Tar Paper				PLO Office		Yes	10-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Transite Wall Partitions		14	55	1009	Army	No	09-11-89	Assumed			UnD	
Basem		Wuerzburg Hospital	345	Floor Tile		74	50	Various	Army	No	09-11-89	Assumed			UnD	
Attic,1,2, 3		Wuerzburg Hospital	345	Floor Tile		2509	50	Thruout	Army	No	09-11-89	Assumed			UnD	

APPENDIX D

417th BSB Asbestos Survey																
Floor	***Use***	***Installation:***	***Bldg No.***	***Description:***	***LM***	***SM***	***ALG***	***Rm No.***	***Type of bldg.***	***Fri.***	***Date of survey:***	***Result of survey:***	***Date of resurvey***	***Result of resurvey***	***Cond.***	***Comments***
Basem		Wuerzburg Hospital	345	Pipe Insulation				Thruout		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Pipe Insulation				Thruout		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Pipe Insulation				Thruout		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Electrical Wrap				1010 Hallway		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Electrical Wrap				1010 Hallway		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Electrical Wrap				1010 Hallway		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Cardboard				1007		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Cardboard				1007		Yes	09-11-89	No Asbestos				
Basem		Wuerzburg Hospital	345	Cardboard				1007		Yes	09-11-89	No Asbestos				
Roof		Wuerzburg Hospital	346	Roof Shingles		6	43	Roof	Army	No	09-11-89	Assumed			UnD	

APPENDIX E

DoDD SCHOOLS AND CDCs

TABLE E-1 DoDD SCHOOLS INSPECTION REPORTS AND MANAGEMENT PLANS

TABLE E-2 CDC INSPECTION REPORTS AND MANAGEMENT PLANS

TABLE E-1 DoDD SCHOOLS INSPECTION REPORTS AND MANAGEMENT PLANS

NAME OF SCHOOL	TITLE AND DATE OF INSPECTION REPORT	TITLE AND DATE OF MANAGEMENT PLAN	POINT OF CONTACT / TELEPHONE	LOCATION OF REPORTS AND PLANS
Wuerzburg Elementary School			Mr. Edward Drozdowski / 350-7169	Leighton Barracks, Bldg. #100
Kitzingen Elementary School			Mrs. Donna Donaldson / 355-8837 / 8745	Marshall Heights, Bldg. #319 and #350
Wuerzburg High-School	DODDS Asbestos Management Program-2000Triennial Resurvey Report- 28 January 2000 for WHS HE4411	DODDS Asbestos Management Program-2000 Asbestos Management Plan-August 2000-for WHS HE4411	Mrs. Mary-Ellen Riley / 350-7230	Leighton Barracks, Bldg. #134
DoDDS Facility Engineer	All Plans	All Plans	William Winslow / 355-8761 / 8764	Harvey Barracks, Bldg. #154

TABLE E-2 CDC INSPECTION REPORTS AND MANAGEMENT PLANS

NAME OF CDC	TITLE AND DATE OF INSPECTION REPORT	TITLE AND DATE OF MANAGEMENT PLAN	POINT OF CONTACT	LOCATION OF REPORTS AND PLANS
N.A.				

APPENDIX F

PERIODIC SURVEILLANCE INFORMATION

APPENDIX G

ABATEMENT ACTIVITIES AND RECOMMENDED MANAGEMENT ACTIONS

TABLE G-1 ASBESTOS ABATEMENT PROJECTS CONDUCTED

TABLE G-2 PLANNED ASBESTOS MANAGEMENT ACTIONS / PROJECTS

TABLE G-3 RECOMMENDED ASBESTOS MANAGEMENT ACTIONS

TABLE G-1 ASBESTOS ABATEMENT PROJECTS CONDUCTED 2003

BSB LOCATION	TYPE AND QUANTITY OF ACM REMOVED	CONTRACTOR INFORMATION	DATE(S) OF REMOVAL
Larson Barracks, Bldg. #63	pipe insulation / 50 lm	Muessmann / DABN06-03-P-0254	Mar-Apr 03
Larson Barracks, Bldg. #4	window sill insulation / 10x	Muessmann / DABN06-03-P-0254	Mar-Apr 03
Harvey Barracks, Bldg. #141	pipe insulation / 50 lm	Muessmann / DABN06-03-P-0254	Mar-Apr 03
Leighton Barracks, Bldg. #5	decontamination of slot machines	Muessmann / DABN06-03-P-0254	Mar-Apr 03
Larson Barracks, Bldg. #15	pipe insulation, 60 lm	Muessmann / DABN06-03-P-0302	Apr-June 03
Harvey Barracks, Bldg. #138	acoustic wall tiles, 200 m2	Muessmann / DABN06-03-P-0302	Apr-June 03

TABLE G-2 PLANNED ASBESTOS MANAGEMENT ACTIONS / PROJECTS 2003

BSB LOCATION	TYPE AND QUANTITY OF ACM	RECOMMENDED ACTION	PLANNED
Leighton Barracks, bldg. #5, entire basement	pipe insulation / 590 lm	removal	
Larson Barracks, bldg. #46, attic and second floor	pipe insulation / 300 lm	removal	
Leighton Barracks, bldg. #49, utilities rooms	pipe insulation /	removal	
Harvey Barracks, bldg. #144, carpenter shop	pipe insulation	removal	
Larson Barracks, heating channels, manholes, bldg. #4 and #23	pipe insulation	removal / maintain in place	
Larson Barracks, bldg. #20, room 112 A	burner gasket	removal	
Larson Barracks, bldg. #2, 1st floor hallway, laundry services	pipe insulation	maintain in place	
Larson Barracks, bldg. #4, second floor hallway	flue door gasket	removal	
Larson Barracks, bldg. #26, basement hallway	flue door gasket	removal	
Larson Barracks, bldg. #55, room 101	floor tiles	removal	
Larson Barracks, bldg. #24, basement rooms 4B and 5B, 2nd floor hallway	pipe insulation	removal / maintain in place	
Larson Barracks, near bldg. #23, steam tunnel	pipe insulation	removal / maintain in place	
Harvey Barracks, bldg. #147, 1st floor, room 101	floor tiles	removal / maintain in place	
Harvey Barracks, bldg. #160, 1st floor, rooms 101, 103, 104-108, hall, breakroom	floor tiles	removal / maintain in place	
Harvey Barracks, #166, 1st floor western hall, rooms 109, 113-115, basement rooms 003, 012, 015, western hall	floor tiles	removal, maintain in place	

BSB LOCATION	TYPE AND QUANTITY OF ACM	RECOMMENDED ACTION	PLANNED
Harvey Barracks, building #166, tunnel basement	pipe insulation debris	removal	
Harvey Barracks, building #187, 1st floor heating room	pipe insulation	removal / maintain in place	
Harvey Barracks, building #243, 1st floor, 110, hall	floor tiles	removal / maintain in place	
Asbestos Resurvey for Kitzingen (partially), Giebelstadt and Wuerzburg Facilities	All class III areas that require reassessment in 2003	Funding of contract	
Asbestos Sampling and Analysis Services	bulk and air samples	Funding of contract in FY 04	

TABLE G-3 RECOMMENDED ASBESTOS MANAGEMENT ACTIONS

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
KFH 341	Kitzingen Family Housing	Stairwell to basement	9" x 9" beige floor tile	Reassess within 5 years
	Kitzingen Family Housing	Stairwell to basement	Black mastic	
	Kitzingen Family Housing	Roof	Corrugated cement roofing panels	Reassess within 5 years
	Kitzingen Family Housing	Basement	Flange gaskets	Reassess within 5 years
LB 1	Larson Barracks	1st, 2nd, 3rd floors	12" x 12" tan vinyl floor tile with white streaks	Reassess within 5 years
	Larson Barracks	1st, 2nd, 3rd floors	mastic, black	
	Larson Barracks	1st/2nd floor and south and north ends of 3rd floor	transite-type window sill	Reassess within 5 years
	Larson Barracks	Basement, 1st floor	fire doors	Reassess within 5 years
LB 2	Larson Barracks	2nd floor: R 222, 223, 224	9" x 9" white floor tile with olive streaks	Reassess within 5 years
	Larson Barracks	2nd floor: R 222, 223, 224	Black mastic	
	Larson Barracks	Floors 1-3	transite-type window sill	Reassess within 5 years
	Larson Barracks	1st floor hallway	Pipe insulation, 4", burlap / plaster / paper / mineral fiber	repair damage, medium-term removal; reassess within 2 years
	Larson Barracks	1st floor drycleaners (R 107)	Pipe insulation, 3", paper / mineral fiber	repair damage, medium-term removal; reassess within 2 years
	Larson Barracks	Office 225 - 2nd floor	Black mastic underneath 9" x 9" gray floor tile with white streaks	Reassess within 5 years
	Larson Barracks	3rd floor, R 311B	9" x 9" brown floor tiles	Reassess within 5 years
LB 4	Larson Barracks	Offices 101, 102, 107 - 1st floor	Black mastic underneath 9" x 9" gray floor tile with black and white streaks	Reassess within 5 years
	Larson Barracks	1st floor: 103-105,107, hall, latrines	gray cardboard window sill insulation	short-term removal; perform air test within 6 months
	Larson Barracks	Room 107A (mechanical)	Flange gaskets	Reassess within 5 years
	Larson Barracks	Exterior	Fire doors	Reassess within 5 years
	Larson Barracks	2nd floor hallway	Flue door gasket	Reassess within 2 years, test for asbestos before removal
LB 14	Larson Barracks	Offices 106, 107 storage 110	12" x 12" beige floor tile with brown streaks	Reassess within 5 years
	Larson Barracks	Offices 106, 107 storage 110	Black mastic	
	Larson Barracks	Room 101A (heat exchanger)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
LB 15	Larson Barracks	Room 103 (Tool Room)	9" x 9" red floor tile with white streaks	Reassess within 5 years
	Larson Barracks	Room 116, 117, 117A, 118	Pipe insulation, 6", brown plaster	repair damage, medium-term removal; reassess within 2 years
	Larson Barracks	1st floor	Fire doors	Reassess within 5 years
LB 19	Larson Barracks	Storage room 101	Pipe insulation, burlap / brown plaster / paper / mineral fiber	repair damage, medium-term removal; reassess within 2 years
	Larson Barracks	Storage room 101	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	B-wing hall	Fire doors	Reassess within 5 years
LB 20	Larson Barracks	Room 112A	Burner gasket (disassembled)	Remove
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 23	Larson Barracks	Lower roof	Roof flashing	Reassess within 5 years
	Larson Barracks	Basement	Fire doors	Reassess within 5 years
	Larson Barracks	Basement: mechanical room and hall; 1st floor: storage room 106	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
LB 24	Larson Barracks	basement: 004B,005B; 2nd floor: hall	Pipe insulation, 8", white paint / burlap / brown plaster / paper / mineral fiber	repair damages, medium-term removal; reassess within 2 years
	Larson Barracks	Basement, Rooms 004B, 005B	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Basement, Room 004B	Fire door	Reassess within 5 years
LB 26	Larson Barracks	Room 005A, 005B	9" x 9" green floor tile with white streaks	Reassess within 5 years
	Larson Barracks	Room 005A, 005B	Black mastic	
	Larson Barracks	Room 005A, 005B	9" x 9" brown floor tile with white streaks	Reassess within 5 years
	Larson Barracks	Room 005A, 005B	mastic	
	Larson Barracks	Room 217	Transite-type air duct	Reassess within 5 years
	Larson Barracks	Exterior	Corrugated roof panels	Remove; test for asbestos before removal
	Larson Barracks	Basement, 1st floor	Fire doors	Reassess within 5 years
	Larson Barracks	Basement, R 006A	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Basement hallway	Flue door gasket	Reassess within 2 years; test for asbestos before removal
LB 27	Larson Barracks	1st floor: R 101-105, 112, 114	50 x 50 cm gray floor tiles with white and black streaks	Reassess within 5 years
	Larson Barracks	2nd floor: all offices except R 201	Green 12" x 12" vinyl floor tiles with white streaks	Reassess within 5 years
	Larson Barracks	R 022 (mechanical)	Flange gaskets	O & M - Plan; remove at end of useful life or if pipes will be exchanged; test for asbestos before removal

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
LB 32	Larson Barracks	Throughout 1st floor	gray and red 9"x9" vinyl floor tiles with mastic	repair damaged areas; reassess within 5 years
	Larson Barracks	1st floor: R 103, in front of latrines	Transite-type panels	Reassess within 5 years
	Larson Barracks	R 104 (mechanical)	Fire door	Reassess within 5 years
LB 46	Larson Barracks	Rooms 132, 133, 222-226, 214-216	gray 9" x 9" floor tiles with black+white streaks	Reassess within 5 years
	Larson Barracks	Rooms 132, 133, 222-226, 214-216	Black mastic	
	Larson Barracks	Room 103 (beneath carpet)	Brown vinyl floor tiles	Reassess within 5 years
	Larson Barracks	Room 103 (beneath carpet)	Black mastic	
	Larson Barracks	Room 102	Green 12" x 12" floor tiles with white streaks	Reassess within 5 years
	Larson Barracks	Room 102	Black mastic	Reassess within 5 years
	Larson Barracks	several offices on 1st and 2nd floor	gray 18" x 18" vinyl floor tiles with black + white streaks	Reassess within 5 years
	Larson Barracks	2nd floor offices, attic	Pipe insulation, burlap / brown mud packing	Remove; perform air test within 6 months
	Larson Barracks	Rooms 212, 213, 228, 229	Green 9" x 9" vinyl floor tiles with white streaks	Reassess within 5 years
	Larson Barracks	Room 223	Brown 9" x 9" vinyl floor tiles with white streaks	Reassess within 5 years
	Larson Barracks	Room 223	Black mastic	Reassess within 5 years
	Larson Barracks	W' building side, vertical duct from basement to attic	Transite-type flue duct	Reassess within 5 years; test for asbestos before removal
	Larson Barracks	Room 038 (heating)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Basement	fire doors	Reassess within 5 years
LB 53	Larson Barracks	006 (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	001, 006	Fire door	Reassess within 5 years
LB 55	Larson Barracks	Room 101	gray 12" x 12" vinyl floor tiles	medium-term removal; replace missing floor tiles; reassess within 2 years
	Larson Barracks	Room 101	Black mastic	
LB 56	Larson Barracks	Room 109, 110, 111	9" x 9" light gray floor tiles with black and white streaks	Reassess within 5 years
	Larson Barracks	Room 109, 110, 111	Black mastic	
	Larson Barracks	Room 106	9" x 9" black floor tiles with white streaks	Reassess within 5 years
	Larson Barracks	Room 101B (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
LB 57	Larson Barracks	Office 102	9" x 9" gray floor tiles with black and white streaks	Reassess within 5 years
	Larson Barracks	Office 101, 103, 104, mechanical room, hall	9" x 9" dark gray floor tiles with black and white streaks	Reassess within 5 years
	Larson Barracks	Room 103A (mechanical)	Flange gaskets	O & M - Plan; remove at end of useful life or if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 59	Larson Barracks	Room 108 (mechanical)	Flange gaskets	O & M - Plan; remove at end of useful life or if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 60	Larson Barracks	Room 110A (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 61	Larson Barracks	Room 111A (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Room 111A (mechanical)	Fire door	Reassess within 5 years
LB 63	Larson Barracks	Storage 111	Pipe insulation, 3", white and brown plaster	Remove; perform air test within 6 months
	Larson Barracks	Rooms 111, 101	Fire doors	Reassess within 5 years
LB 66	Larson Barracks	Office	9" x 9" green floor tiles with black and white streaks	repair damaged areas or remove; reassess within 5 years
	Larson Barracks	Boiler hall	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 70	Larson Barracks	Auditorium, heating room	Fire doors	Reassess within 5 years
LB 71	Larson Barracks	Mechanical room (next to men's latrine)	Pipe insulation, 20", green paint / burlap / brown plaster / paper / mineral fiber	repair damages, medium-term removal; reassess within 2 years
	Larson Barracks	Roof	Corrugated cement roofing panels	reassess within 5 years; test for asbestos before removal
	Larson Barracks	Mechanical rooms	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 99	Larson Barracks	1st floor	9" x 9" floor tiles	Reassess within 5 years; test for asbestos before removal
	Larson Barracks	Mechanical room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
LB 100	Larson Barracks	Room 106 (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
LB 453	Larson Barracks	Throughout 1st and 2nd floor	12" x 12" beige floor tile with brown sreaks	Reassess within 5 years
	Larson Barracks	Throughout 1st and 2nd floor	Black mastic	Reassess within 5 years
	Larson Barracks	Throughout 1st and 2nd floor	Transite-type window sill	Reassess within 5 years
	Larson Barracks	R 117 (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Larson Barracks	Throughout	Fire doors	Reassess within 5 years
LB 460	Larson Barracks	Roof	Corrugated cement roofing panels	Reassess within 5 years; test for asbestos before removal
	Larson Barracks	Room 001	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
LB Steam Tunnels	Larson Barracks	Manhole southwest of Bldg. 23	pipe insulation, 8", tar paper / brown plaster	medium-term abatement (in manhole); reassess within 2 years
	Larson Barracks	Manhole north of Bldg. 4	pipe insulation, 12", paper+blue mineral fiber	short-term abatement (in manhole)
HB 105	Harvey Barracks	1st floor southern hall	floor tile, green, 2' x 2'	replace missing floor tiles; reassess within 5 years
	Harvey Barracks	1st floor southern hall	mastic	
	Harvey Barracks	2nd floor, southern part	floor tile, gray, 20" x 20"	Reassess within 5 years
		Basement, R 001	Flue door gaskets	Reassess within 5 years; test for asbestos before removal
		Basement, R 002	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 108	Harvey Barracks	1st floor: rooms 107-114, 116, 117; 2nd floor: rooms 200, 201, 203-214, 220, 221	floor tile, red with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	1st floor: rooms 107-114, 116, 117; 2nd floor: rooms 200, 201, 203-214, 220, 221	black mastic	
HB 109	Harvey Barracks	3rd floor: rooms 302, 314, 315	floor tile, red with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	3rd floor: rooms 302, 314, 315	black mastic	
	Harvey Barracks	Basement: room 003A , headroom	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 110	Harvey Barracks	roof	asbestos-cement panels	Reassess within 5 years
	Harvey Barracks	1st floor	fire doors	Reassess within 5 years

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
HB 113	Harvey Barracks	2nd floor: hall (section B) and offices (section C)	9" x 9" red floor tile with white streaks	Reassess within 5 years
	Harvey Barracks	2nd floor: hall (section B) and offices (section C)	mastic, black	
	Harvey Barracks	Boiler Room	Boiler Gasket	Reassess within 5 years
	Harvey Barracks	Hallway (Section C)	Black mastic underneath 9" x 9" gray floor tile with black and white streaks	Reassess within 5 years
	Harvey Barracks	2nd floor latrine	fiber-cement toilet partitions	Reassess within 5 years; test for asbestos before removal
	Harvey Barracks	Basement, boiler rooms	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	1st floor kitchen	Fire doors	Reassess within 5 years
HB 114	Harvey Barracks	1st, 2nd, 3rd floor of Wing B	9" x 9" red floor tile with white streaks	Reassess within 5 years
	Harvey Barracks	1st, 2nd, 3rd floor of Wing B	Black mastic	
	Harvey Barracks	Stair landing 3B	12" x 12" gray floor tiles with white streaks	Reassess within 5 years
	Harvey Barracks	Stair landing 3B	Black mastic	
	Harvey Barracks	3rd floor, dayroom (308)	8" x 8"red floor tile	Reassess within 5 years
HB 115	Harvey Barracks	Room 117 (mechanical)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement, 1st floor	Fire doors	Reassess within 5 years
HB 117	Harvey Barracks	Room 116A (heating)	Flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Exterior	Fire doors	Reassess within 5 years
HB 122	Harvey Barracks	Office 107, Office 108, Storage 113 and Storage 114A	9" x 9" black floor tile with white streaks	Reassess within 5 years
	Harvey Barracks	Office 104, Office 103 and Office 109	9" x 9" green floor tile with white streaks	Reassess within 5 years
	Harvey Barracks	Office 104, Office 103 and Office 109	Black mastic	
	Harvey Barracks	Basement, 1st floor	Fire doors	Reassess within 5 years
HB 129	Harvey Barracks	boiler hall	pipe insulation (red, mud-like)	not accessible during survey; test and remove if positive
	Harvey Barracks	boiler hall	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 130	Harvey Barracks	Basement: mechanical room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 132	Harvey Barracks	1st floor: room 111A (heating room)	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 133	Harvey Barracks	1st floor: room 114 (storage)	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 134	Harvey Barracks	1st floor: heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
HB 138	Harvey Barracks	Wing E: 2nd + 3rd floor: hall	floor tiles, beige with black streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Exterior shed roof	asbestos-cement panels	Reassess within 5 years
	Harvey Barracks	Wing B: 2nd floor, rooms 204, 208, hall	black mastic	Reassess within 5 years
	Harvey Barracks	Wing C: 2nd floor: Room 211	brown mastic	Reassess within 5 years
	Harvey Barracks	Wing C: 2nd floor, Rooms 211, 227	acoustic wall tiles, regular holes, white	Medium-term removal; reassess within 2 years
	Harvey Barracks	Wing B: 3rd floor, hallway	floor tiles, gray with black streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Wing B: 3rd floor, hallway	black mastic	
	Harvey Barracks	1st floor: gymnasium	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Wing A: roof	black cementitious shingles	Reassess within 5 years; test for asbestos before removal
HB 140	Harvey Barracks	1st floor: storage 116	floor tiles, light brown with black streaks, 30 x 30cm	Reassess within 5 years
HB 141	Harvey Barracks	Wing A: 2nd floor: room 218	mastic	Reassess within 5 years
	Harvey Barracks	Wing A: 2nd floor: rooms 201 - 203, 207, 209, 213, 218	floor tiles, red with white spots, 12" x 12"	Reassess within 5 years
	Harvey Barracks	Wing A: 2nd floor: rooms 201 - 203, 207, 209, 213, 218	black mastic	
	Harvey Barracks	Wing A: 1st floor: room 110 A+B; Wing B: 1st floor, rooms 120, 121, 126A	floor tiles, green with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Wing B: 1st floor, room 120, 122,	pipe insulation; blue paint, canvas, brown mud packing)	Remove; perform air test within 6 months
	Harvey Barracks	Wing B: 1st floor: Latrine	partition wall, gray cement-like	Reassess within 5 years
	Harvey Barracks	Wing C: 2nd floor: office 201, 202, 204, 206-208, 210-214	floor tiles, gray with black streaks, 9" x 9"	repair/replace damaged areas; reassess within 5 years
	Harvey Barracks	Wing C: 2nd floor: office 201, 202, 204, 206-208, 210-214	black mastic	
	Harvey Barracks	Wing A: room 113, 113A	black cement-like window sills	Reassess within 5 years; test for asbestos before removal
	Harvey Barracks	Basement/attic	fire door	Reassess within 5 years
HB 142	Harvey Barracks	1st floor: room 112, 113	floor tiles, black with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	2nd floor: office 202, 212, 213, 216	floor tiles, gray with white streaks, 50 x 50cm	Reassess within 5 years
	Harvey Barracks	2nd floor: office 205-210, hallway	floor tiles, green with white streaks, 50 x 50 cm	Reassess within 5 years
	Harvey Barracks	Basement	fire door	Reassess within 5 years
HB 143	Harvey Barracks	1st floor: Entry, hall	floor tiles, 12" x 12"	Reassess within 5 years
	Harvey Barracks	1st floor: Entry	black mastic	

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
HB 144	Harvey Barracks	Wing A: 2nd floor: room 203, 207	floor tiles, green with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Wing A: 2nd floor: room 203, 207	mastic	
	Harvey Barracks	Wing A: 1st floor: room 108	floor tiles, brown with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Wing A: 1st floor: room 108	black mastic	
	Harvey Barracks	1st floor	fire door	Reassess within 5 years
	Harvey Barracks	Exterior	ashtray (cementitious)	Reassess within 5 years
HB 146	Harvey Barracks	basement: heating room	fire door	Reassess within 5 years
	Harvey Barracks	basement: heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 147	Harvey Barracks	1st floor: room 101	floor tiles, green with white streaks, 9" x 9"	repair or remove; if repaired: reassess within 5 years
	Harvey Barracks	1st floor: room 101	mastic	
HB 152	Harvey Barracks	Exterior: shed roof and behind garage	asbestos-cement roofing panels	medium-term removal; remove panels behind garage; reassess within 5 years
	Harvey Barracks	Mechanical room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 155	Harvey Barracks	1st floor auditorium	ceiling tiles	Reassess within 5 years; test for asbestos before removal
	Harvey Barracks	Basement: R. 001 (heat exchanger)	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement: R. 001 (heat exchanger)	fire door	Reassess within 5 years
HB 159	Harvey Barracks	room 115	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 160	Harvey Barracks	1st floor: rooms 101, 103, 104-108, hall, breakroom	floor tiles, green with white streaks, 9" x 9"	repair damaged areas or remove; reassess within 2 years
	Harvey Barracks	1st floor: rooms 101, 103, 104-108, hall, breakroom	black mastic	
HB 164	Harvey Barracks	heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 166	Harvey Barracks	1st floor: western hall, rooms 109, 113-115; Basement: rooms 003, 012, 015, western hall	mastic underneath floor tiles, beige with white/brown streaks, 50 x 50cm	repair damaged areas; reassess within 2 years
	Harvey Barracks	Basement: pipe tunnel	debris from insulation material (plaster, cardboard, mineral fibers)	Remove debris and clean area
	Harvey Barracks	R 002A (boiler)	flange gaskets	O & M - Plan; remove at end of useful life or if pipes will be exchanged; test for asbestos before removal
HB 167	Harvey Barracks	Basement: heating room	boiler door gasket (asbestos rope)	Reassess within 5 years
	Harvey Barracks	Heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement	fire doors	Reassess within 5 years
HB 168	Harvey Barracks	Heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement	fire doors	Reassess within 5 years

Table 2
Recommended Asbestos Management Actions

Building Number	Installation Name	All floors/rooms with the same homogenous area	Material Description	Recommendations
HB 169	Harvey Barracks	Heating room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement	fire doors	Reassess within 5 years
HB 170	Harvey Barracks	Basement	mastic underneath floor tiles, gray with white/black streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Basement	mastic underneath floor tiles, black with white streaks, 9" x 9"	Reassess within 5 years
	Harvey Barracks	Mechanical room	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
	Harvey Barracks	Basement	fire door	Reassess within 5 years
HB 187	Harvey Barracks	1st floor: room 109	cementitious wallboard (woodlike finish)	Reassess within 5 years
	Harvey Barracks	1st floor: heating room 103	pipe insulation (silver paint, plaster, cardboard, mineral fibers)	Medium-term removal; reassess within 2 years
	Harvey Barracks	roof	transite-type roofing panels	Reassess within 5 years; test for asbestos before removal
	Harvey Barracks	R 103 (mechanical room)	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal
HB 203	Harvey Barracks	roof	asbestos-cement roofing panels	Reassess within 5 years
HB 243	Harvey Barracks	1st floor: storage 110, hall	floor tiles, gray with white/black streaks, 12" x 12"	Reassess within 2 years
	Harvey Barracks	1st floor: storage 110, hall	mastic	
	Harvey Barracks	roof	transite-type roofing panels	Reassess within 5 years; test for asbestos before removal
	Harvey Barracks	R 106A (mechanical room)	flange gaskets	Reassess within 5 years; remove if pipes will be exchanged; test for asbestos before removal

APPENDIX H

SOPs FOR ASBESTOS-CONTAINING MATERIALS:

H-1 SOP FOR BRAKE SHOES

H-2 GERMAN TRANSLATIONS OF 0&M WORK PRACTICES AND PROCEDURES

H-3 WORK INSTRUCTION SHEETS (BETRIEBSANWEISUNGEN) FOR INHOUSE WORK ACTIVITIES

H-4 WORK PRACTICES FOR WORK WITH LOW EXPOSURE IAW NR. 2.10 ABS. 8, TRGS 519 FOR INHOUSE WORK ACTIVITIES

H-5 HEALTH HAZARDS THROUGH ASBESTOS: INFORMATION FOR US-EMPLOYEES AND CONTRACTORS

APPENDIX H-1

SOP FOR BRAKE SHOES

APPENDIX H-1 (ENGLISH)

ASBESTOS CONTAINING BRAKE SHOES

Cleaning:

- When worn friction surfaces are dismantled, the friction dust must be vacuumed by using a Category K1 vacuum cleaner with a HEPA filter. The use of compressed air to blow away particles is specifically prohibited. Dust binding or wet cleaning may be used if the cleaning agent does not negatively affect the braking performance. Training requirement: 5-hour TRGS 519, Appendix 5 if removal follows the approved BIA method described in BGI 664, AT4 and AT5 / 16-hour O & M Training; PPE: Disposable overall, and half-face respirator fitted with P-100 / P2 or P3-filters.

Maintenance work:

- If asbestos-containing brake surfaces must be ground to correct specifications without removal, then a slowly revolving grinding device should be used. Excessive grinding is prohibited. During grinding, a Category K1 vacuum cleaner with a HEPA filter must be used to vacuum off the dust. Training requirement: 5-hour TRGS 519, Appendix 5 if removal follows the approved BIA method described in BGI 664, AT4 and AT5 / 16-hour O & M Training; PPE: Disposable overall, and half-face respirator fitted with P-100 / P2 or P3-filters.

Removal:

- To the extent possible, worn surfaces should be removed from their holders as an entire piece. The removed coatings, friction surface remnants, and the vacuumed dust must be disposed of as asbestos-containing waste. Training requirement: 5-hour TRGS 519, Appendix 5 if removal follows the approved BIA method described in BGI 664, AT4 and AT5 / 16-hour O & M Training; PPE: Disposable overall, and half-face respirator fitted with P-100 / P2 or P3-filters.

Labeling:

- Not required.

Restricted activities:

- Do not use compressed air to blow dust away.
- Do not use an ordinary vacuum for cleanup of asbestos fibers/dust; do not dry sweep areas covered with asbestos dust.

APPENDIX H-1 (GERMAN)

ASBESTHALTIGE BREMSBELÄGE

Reinigen:

- Rad und Felge abmontieren. Abrieb der Bremsbacken mit einem K1-Staubsauger absaugen. Die Benutzung von Kompressionsluft um den Staub wegzublasen ist verboten. Das Reinigen mittel Netz- oder Pentriermittel kann erfolgen, wenn dies die Bremsleistung nicht beeinträchtigt. Trainingsvoraussetzungen: 5-Stunden TRGS 519 (Anhang 5) Lehrgang wenn die Arbeiten entsprechend des BIA-Verfahrens AT3 bzw. AT4 erfolgen / 16-Stunden AHERA O & M Traning; Schutzausrüstung: Einweganzug, Halbmaske mit P2 / P3 Filter.

Instandhaltungsarbeiten:

- Zum Abschleifen der Oberflächen der Bremsbeläge sind langsamdrehende Schleifmaschinen zu verwenden. Übermäßiges Abschleifen ist verboten. Während des Abschleifens muß der anfallende Staub mit einem K1-Staubsauger abgesaugt werden. Trainingsvoraussetzungen: 5-Stunden TRGS 519 (Anhang 5) Lehrgang wenn die Arbeiten entsprechend des BIA-Verfahrens AT3 bzw. AT4 erfolgen / 16-Stunden AHERA O & M Traning; Schutzausrüstung: Einweganzug, Halbmaske mit P2 / P3 Filter.

Entsorgung:

- Wenn möglich, sollten die asbesthaltigen Bremsbeläge vollständig entfernt warden. Alle asbesthaltigen Teile, asbesthaltigen Abfälle und der abgesaugte Staub müssen als asbesthaltige Abfälle ordnungsgemäß entsorgt werden. Trainingsvoraussetzungen: 5-Stunden TRGS 519 (Anhang 5) Lehrgang wenn die Arbeiten entsprechend des BIA-Verfahrens AT3 bzw. AT4 erfolgen / 16-Stunden AHERA O & M Traning; Schutzausrüstung: Einweganzug, Halbmaske mit P2 / P3 Filter.

Warnaufkleber:

- Nicht erforderlich.

Verbotene Aktivitäten:

- Keine Kompressorluft zum wegblasen von Bremsabrieb verwenden.
- Keinen gewöhnlichen Staubsauger verwenden. Asbeststaub nicht trockenwischen.

APPENDIX H-2

GERMAN TRANSLATIONS OF 0&M WORK PRACTICES AND PROCEDURES

APPENDIX H-2

ARBEITSVERFAHREN UND INSTANDHALTUNGSPRAKTIKEN/PROZEDUREN

1. ARBEITSVERFAHREN

1.1 Grundreinigung mit einem bauartgeprüften Staubsauger Vewendungskatergorie K1 gemäß TRGS 519 (HEPA Filter)

Alle Bereiche eines Gebäudes, in denen sich schwach gebundener Asbest, beschädigte asbesthaltige Rohrisolierung, oder vermutetes schwachgebundenes asbesthaltiges Material befindet, sollten einer Grundreinigung unterzogen werden, sofern nicht in den letzten 6 Monaten mit geeigneten Methoden gereinigt wurden. Die Reinigung sollte mindestens nach Abschluß der Asbestinspektion oder vor der Ergreifung von Maßnahmen zur Reduzierung der Faserfreisetzung (außer O & M Maßnahmen oder Reparaturen) erfolgen.

Die Grundreinigung kann von BSB Personal durchgeführt werden. Zur Reinigung von Bereichen, in denen Asbest vorhanden ist, muß ein zugelassener, baumustergeprüfter Staubsauger der Verwendungskategorie K1 - kein gewöhnlicher Staubsauger –verwendet werden. Benutzen Filter und Staubsaugerbeutel müssen in reißfeste Abfallsäcke verpackt und luftdicht verschlossen werden. Asbesthaltige Abfälle sind entsprechend den gültigen Richtlinien zu entsorgen. Die Reinigungsprozedur ist wie folgt:

a. Fußböden werden mit einem Fußbodenaufsatz mit Gummidichtung und einstellbarer Höhenverstellung gesaugt. Zur Reinigung von unregelmäßigen Oberflächen soll ein Fugenaufsatz verwendet werden.

b. Harte oder glatte Oberflächen werden mit dem Aufsatzset 1/16 Inch über der Oberfläche abgesaugt.

c. Für Möbel, Stoffe oder andere Oberflächen eine Polsterdüse verwenden. Das Saugen von Teppichen oder Stoffen erfolgt während die Düse direkt auf der zu saugenden Oberfläche aufliegt.

d. Die Oberflächen sollen in parallelen Bahnen gesaugt werden. Jede Bahn überschneidet die zuvor gesaugte Bahn um die Hälfte der Düsenbreite.

e. Oberflächen, die in einer Richtung gereinigt wurden, müssen ein zweites Mal im 90° - Winkel zur ersten Reinigungsrichtung gesaugt werden.

1.2 Dampfreinigung von Teppichen.

Alle betroffenen Bereiche eines Gebäudes müssen mit einem geeigneten Staubsauger mit HEPA-Filter dampfgereinigt werden. Die Teppichdampfreinigungsprozedur ist wie folgt:

a. Die Teppichdampfreinigung erfolgt mit einem Teppichaufsatzdüse.

b. Alle Oberflächen sollen in parallelen Bahnen dampfgereinigt werden. Jede Bahn überschneidet die zuvor gesaugte Bahn um die Hälfte der Düsenbreite.

c. Oberflächen, die in einer Richtung gereinigt wurden, müssen ein zweites Mal im 90° - Winkel zur ersten Reinigungsrichtung dampfgereinigt werden.

d. Das beim Reinigungsprozeß anfallende Wasser muß sorgfältig aufgefangen und ordnungsgemäß entsorgt werden.

1.3 Polyethylene Auffangunterlage

Zur Einrichtung eines Arbeitsbereiches mit einer Auffangunterlage muß eine Polyethylen-Folien auf dem Boden des Arbeitsbereiches ausgebreitet und festgeklebt bzw. fixiert werden. Bei Benutzung von Leitern oder ähnlicher Ausrüstung müssen mehrere Folienlagen verwendet werden sowie eine feste Oberfläche wie z.B. ein Holzbrett auf die Folien gelegt werden. Bei weichem Untergrund (z.B. Teppich), ist darauf zu achten, daß die Folie nicht zerreißt. Die Folie muß groß genug sein, um herabfallenden Abfall vollständig aufzufangen. Bei Arbeiten auf Podesten, Gerüsten, etc., sollte die Folie auf der Arbeitsplattform eingerichtet werden. Ist dies nicht möglich, muß die Größe der Folie unterhalb der Arbeitsplattform so dimensioniert sein, daß sichergestellt wird, daß jeglicher herabfallender Abfall aufgefangen wird. Es ist darauf zu achten, daß die Verwendung einer Auffangunterlage die potentielle Rutschgefahr im Arbeitsbereich erhöht. Nicht rutschende Schuhüberzüge werden empfohlen.

1.4 Unterdruckhaltung mittels Unterdruckanlage und HEPA-Filter

Abschottungen müssen mit Unterdrucksystemen ausgerüstet sein um einer Faserfreisetzung aus der Abschottung vorzubeugen und um eine Durchlüftung des Arbeitsbereiches zur Reduzierung der Asbestfaserkonzentration zu gewährleisten. Unterdruck innerhalb von kleinen Arbeitsbereichen (Arbeiten geringen Umfangs) kann ggf. über einen baumustergeprüften Staubsauger mit HEPA-Filter erzeugt werden.

Informationen zur Einrichtung von Unterdruckanlagen und Abluftfiltern sind in der TRGS 519 enthalten. Zusätzliche Informationen, einschließlich empfohlener Luftabsaugraten pro Stunde, können folgender Literatur entnommen werden: The National Institute of Building Sciences (NIBS) Asbestos Abatement and Management in Buildings: Model Guide Specifications; Section 01413, "Temporary Pressure Differential and Air Circulation System.

Zur ausreichenden Unterdruckhaltung eines kleinen Arbeitsbereiches ist ein baumustergeprüfter Staubsauger der Verwendungskategorie K1 mit HEPA Filter normalerweise ausreichend. Größere Arbeitsbereiche erfordern entsprechend höher dimensionierte Unterdruckgeräte um den erforderlichen Unterdruck zu gewährleisten.

Bei kleinen Arbeitsbereichen wird das Unterdruckgerät bzw. der Staubsauger außerhalb des Arbeitsbereiches eingerichtet. Die Zuluft wird in den Arbeitsbereich über einen flexiblen Schlauch geführt, der an der Zuluftöffnung luftdicht befestigt wird. Die Zuluftöffnung befindet sich gegenüber der Einkammerschleuse oder so nah wie möglich an der durchzuführenden Arbeit. An der Außenseite der Abschottung ist der Schlauch, der die Abluft in den Staubsauger führt, luftdicht zu befestigen. Die meisten Staubsauger verfügen nicht über einen Anschluß um die gefilterte Abluft nach außen zu leiten. Zusätzliche Sicherheit ist wünschenswert für Bereiche in denen die Abluft in das Gebäudeinnere geleitet wird.

2. ARBEITSAUSFÜHRUNGEN

Ausschließlich folgende Arbeiten sollten von BSB-Personal durchgeführt werden:

- Arbeiten mit geringer Exposition (siehe Anlage AMP-6, Tabelle 3)
- Sanierungs- und Instandhaltungsarbeiten an Asbestzementprodukten (TRGS 519, Abs. 15 and 16.2)
- Entfernung kleiner Bereiche von Rohrisolierungen mittels Glove Bag-Verfahren zur Reparatur von gebrochenen Rohrleitungen bei Notfällen.
- Durchführung von Arbeiten geringen Umfangs (Maximale Arbeitsdauer von vier Stunden mit maximal 2 Arbeitnehmern); dies beinhaltet bei Notfällen Arbeiten in einer staubdichten Abschottung mit Unterdruckhaltung (kleiner Arbeitsbereich) (TRGS 519, Abs. 14.2)
- Instandhaltungsarbeiten an asbesthaltigen Bremsanlagen und Kupplungen (TRGS 519, Abs. 16.3).

2.1 Einrichten von Arbeitsbereichen

Eine Folienabschottungen ist kein Ersatz für faserminimierende Arbeitsverfahren. Faserminimierende Arbeitsverfahren, wie die Befeuchtung von asbesthaltigen Materialien, zerstörungsfreie Behandlung von asbesthaltigen Materialien, lokales Absaugen von Asbeststaub/-bruchstücken, und lokale Abluftführung / Durchlüftung sind die Grundlagen der Faserminimierung während Arbeiten an Asbestprodukten. Folienabschottungen und Glove Bags sind als zusätzliche Schutzmaßnahmen einzurichten.

Die Einrichtung von Arbeitsbereichen für Asbestsanierungen geringen Umfangs beinhaltet normalerweise die Einrichtung einer Auffangunterlage oder einer Mini-Abschottung. Andere Techniken, wie die Verwendung von Glove Bags oder Glove Box können ebenfalls, wenn angemessen, verwendet werden.

2.2 Reinigung

Asbestkontaminierte Werkzeuge und Geräte müssen mittels K1-Staubsauger und/oder naß gereinigt werden. Besondere Aufmerksamkeit sollte der Reinigung von Verlängerungskabeln, Rollen, Abluftschläuchen und anderen Gegenständen, die Schmutz während der Asbestarbeiten aufnehmen könnten, gewidmet werden. Werkzeuge und Geräte sollten außerhalb des Arbeitsbereiches plaziert werden sobald die Reinigung abgeschlossen ist, um einer erneuten Verunreinigung vorzubeugen. Auffangunterlagen und Mini-Abschottungen können gereinigt oder als Asbestabfall entsorgt werden. Gegenstände, die nicht vollständig gereinigt werden können und die in anderen Asbestarbeitsbereichen verwendet werden sollen, können in Entsorgungsbehältern/-säcken eingepackt, abgedichtet und mit Warnaufklebern versehen werden. Diese Säcke sollten feucht gereinigt und anschließend außerhalb des Arbeitsbereiches gesammelt werden. Genauso können Abluftschläuche an beiden Enden mit Klebeband versiegelt und nur außen gereinigt werden, bevor sie aus dem Arbeitsbereich entfernt werden.

Die Reinigung eines Arbeitsbereiches, in dem Asbestarbeiten durchgeführt wurden, bedeutet Absaugen aller Oberflächen mittels K1-Staubsauger und / oder feucht reinigen aller Oberflächen innerhalb des Bereiches.

2.3 Naß Reinigung

Die Verfahren, die zur Naßreinigung verwendet werden müssen, sind wie folgt:

a. Eintauchen des Einwegtuches in den Eimer mit entspanntem Wasser (siehe Definitionen, GRS).

b. Auswringen des Einwegtuches und vierlagig zusammenfalten.

c. Abwischen der Oberfläche. Anschließend, umfalten des Tuches zur Benutzung einer sauberen Seite. Das Tuch darf nicht wieder in den Eimer mit dem entspannten Wasser getaucht werden, da sonst das Wasser kontaminiert wird und ausgetauscht werden muß.

d. Der Vorgang c wird solange wiederholt, bis alle Seiten des Tuches benutzt sind. Sollte noch mehr zu reinigen sein, muß ein neues Tuch verwendet werden.

e. Gebrauchte Tücher müssen in Asbestabfallsäcken entsorgt werden.

f. Kontaminiertes Wasser muß ordnungsgemäß entsorgt werden.

2.4 Glove Bag

Glove Bags sind im allgemeinen zur Entfernung von asbesthaltigen Rohrisolierungen vorgesehen. Sie sind zur Einwegverwendung gedacht und sind kommerziell in verschiedenen Ausführungen und Größen erhältlich. Standard Glove Bags beginnen bei Temperaturen über 49° Celsius an zu schmelzen. Spezielle Glove Bags zur Benutzung bei höheren Temperaturen sind erhältlich. Andere Versionen von Glove Bags wie z.B. Glove Boxes, vielfach Glove Bag

Verbindungen, Glove Bags mit Rahmen und Glove Bags, die den Abfall in Abfallsäcken sammeln, sind ebenfalls vorgefertigt erhältlich.

Die folgenden Verfahrensschritte sollten bei Glove Bag Verwendung durchgeführt werden:

a. Überprüfung des Sanierungsbereiches auf Beschädigungen. Beschädigte asbesthaltige Materialien (gebrochene Isolierungen, herunterhängendes Material, etc.) in Folie einwickeln und mit Klebeband abdichten. Zur späteren Befestigung des Glove Bags eine Lage Klebeband um die Ränder des Sanierungsbereiches wickeln. Des weiteren muß jegliches beschädigtes asbesthaltiges Material außerhalb des Glove Bags fixiert werden, um zusätzliche Beschädigungen/Verunreinigungen zu vermeiden.

b. Um den Sanierungsbereich mit dem Glove Bag zu umschließen, ggf. Oberseite des Glove Bag Aufschlitzen und falls erforderlich, Seiten aufschneiden.

c. Erforderliche Werkzeuge innerhalb des Glove Bags plazieren. Normalerweise verwendetet Werkzeuge sind: Schaber oder Spachtel, Messer, Einwegtücher, Bürsten, Drahtschneider, Blechschere und angefeuchtete Reparaturtücher. Die Reparaturtücher in Stücke zur Abdeckung von zurückgebliebenem asbesthaltigem Material schneiden.

d. Zur späteren Fixierung einen Klebestreifen auf den aufgeschlitzten Rand der Oberseite des Glove Bag befestigen. Den Glove Bag um den Sanierungsbereich legen, und die Oberseite mit dem Klebeband verschließen. Dabei muß ein Arbeitsraum von 8 bis 12 Inches zwischen Glove Bag und asbesthaltigem Material verbleiben. Glove Bag auf dem zuvor installierten Klebeband, mit dem die Ränder des Sanierungsbereiches umwickelt wurden (siehe Vorgang a), luftdicht abkleben. Glove Bag mittels Absaugpumpe auf Dichtigkeit überprüfen.

e. Sollte ein Unterdruck-Glove Bag mit Halterahmen und gefilterter Abluft verwendet werden: Befestigen des Abluftschlauches eines angeschalteten K1-Staubsauger am Glove Bag zur Unterdruckerzeugung im Glove Bag.

f. Einbringen des Sprühaufsatzes (z.B. die Düse eines Gartensprengers) des Wasserschlauches vom Behälter mit entspanntem Wasser durch den Wasserzuführungstutzen des Glove Bag. Anschlußstutzen sorgfältig um den Schlauch abkleben zur Vermeidung von Undichtigkeiten. Hände in die Ärmel des Glove Bag einführen.

g. Entfernen von jeglichen Metallumhüllungen im Sanierungs-/Reparaturbereich mittels Blechschere und/oder Drahtschneider. Einwickeln jeglicher scharfer Gegenstände zur Vermeidung von Schnitten im Glove Bag. Perforieren aller lackierten Rohrisolierungen um eine vollständige Durchnetzung des asbesthaltigen Materials zu gewährleisten.

Ausreichendes An- und Durchfeuchten des Materials, an dem gearbeitet werden soll mit entspanntem Wasser bis eine Durchfeuchtung bis auf den Grund gewährleistet ist.

h. Einschneiden der Isolierung, die entfernt werden soll. Achtung, Glove Bag dabei nicht beschädigen. Während des Einschneidens, entspanntes Wasser bzw. Penetriermittel auf die Schnittstellen sprühen, um eine Staubentwicklung zu minimieren.

i. Entfernen der Isolierung mittels Schaber oder anderer erforderlicher Werkzeuge. Asbesthaltige Abfälle im unteren Teil des Glove Bags sammeln. Anschließend alle Werkzeuge mit Wasser innerhalb des Glove Bag reinigen, die gereinigten Werkzeuge in eine Tasche oder einen Ärmel des Glove Bags legen und nach außen stülpen.

j. Mit Hilfe einer Bürste, Einwegtüchern und Wasser, die sanierten Bereiche reinigen.

k. Verbleibendes, exponiertes asbesthaltiges Material mittels angefeuchteten Reparaturtüchern (meistens gewebte, nicht asbesthaltige Leinen oder Baumwollmaterialien) abdichten oder ein Restfaserbindemittel (elastisches Polymerisationsprodukt, das als Dichtung auf das asbesthaltige Material zur Faserbindung aufgesprüht wird) aufbringen. Die Verwendung von Hochtemperatur-Restfaserbindemitteln ist erforderlich.

l. Abspülen der Innenseite des Glove Bags mit Wasser und anschließendes Abwischen, so daß jeglicher Schmutz in den unteren Bereich des Glove Bags (Bereich, in dem die Folie verschlossen und abgeschnitten wird) befördert wird.

m. Entfernen der Sprühdüse aus dem Wasserzuführungsstutzen, zusammendrehen des Anschlußstutzens und abdichten mit Klebeband. Von der Außenseite des Glove Bags aus die Werkzeugtasche herausziehen und verzwirbeln um die Tasche vom restlichen Beutel abzuschließen. Klebeband um den verzwirbelten Bereich wickeln und dann die Werkzeugtasche durch den verklebten Bereich abschneiden, während das Glove Bag abgedichtet bleibt.

n. Verunreinigte Werkzeuge (die sich noch in der Werkzeugtasche befinden) können anschließend ohne weitere Reinigung in einem neuen Glove Bag plaziert werden. Alternativ kann die Werkzeugtasche in einem Eimer mit Wasser Unterwasser geöffnet und anschließend das Werkzeug gereinigt werden.

o. Luft aus dem Glove Bage mittels K1-Staubsauger absaugen. Während der Luftabsaugung die Folie mehrfach verdrehen, so daß sich der Asbestabfall im unteren, abgetrennten Teil sammelt. Die verdrehte Stelle mit Klebeband umwickeln.

p. Einen reißfesten Asbest-Abfallsack über den verdrehten Glove Bag Bereich (immer noch am Sanierungsbereich befestigt) stülpen. Das Klebeband an der Oberseite des Glove

Bags entfernen während gleichzeitig mittels Staubsauger im oberen Bereich des Glove Bags die Luft abgesaugt wird. Den Glove Bag in den Abfallsack stecken und den Sack sorgfältig verschließen.

Glove Bags mit selbsttragendem Rahmen können für Asbestarbeiten an asbesthaltigen Beschichtungen bzw. für andere Arten von asbesthaltigen Materialien verwendet werden. Die allgemeinen Arbeitsverfahren für diese Glove Bags sind wie folgt:

a. Aufbauen eines rechteckigen oder quadratischen Rahmens aus PVC-Rohr mit geringem Durchmesser. Stützbeine können aus Rohrstücken konstruiert werden, um den Glove Bag in die gewünschte Höhe zu bringen. Fertige Rahmen mit Teleskopbeinen sind erhältlich.

b. Um den Gove Bag auf dem Rahmen zu installieren, die oberen Ecken des Glove Bags über die Rahmenseiten stülpen und die offenen Seiten mindestens 10 Inches über den Rahmen ziehen. Glove Bag mit Hilfe von Textilklebeband verschließen. Werkzeuge und benötigte Hilfsmittel im Glove Bag plazieren.

c. Glove Bag einschließlich Rahmen über dem Arbeitsbereiche so plazieren, daß der Rahmen das asbesthaltige Material gerade nicht berührt. Lage und Größe des Rahmens zum asbesthaltigen Material sollte so gewählt sein, daß Bewegungen des Rahmens ohne Beschädigung des Asbests während der Arbeiten erfolgen können. Einbringen des Sprühaufsatzes (z.B. Düse eines Gartensprengers) des Wasserschlauches vom Behälter mit entspanntem Wasser in den Glove Bag und versiegeln der Öffnung mit Klebeband.

d. Eine Öffnung für den Schlauch zum Unterdruckgerät in das Glove Bag schneiden. Als Unterdruckgerät kann ein K1-Staubsauger oder ein kleines Unterdruckgerät verwendet werden. Installieren des Schlauches und abdichten des Anschlußstutzens. Ein Vorfilter kann erforderlich sein, um das einsaugen von grobem Asbestschmutz in das Unterdruckgerät zu vermeiden.

e. Den Schlauch eines eingeschalteten K1-Staubsaugers in dem Glove Bag so installieren, daß er zum Reinigen während der Asbestarbeiten genutzt werden kann.

f. Einschalten des Unterdruckgerätes und überprüfen aller Seiten des Glove Bags auf Dichtigkeit mittels Rauchtest. Sollte kein ausreichender Unterdruck vorhanden sein, den Abstand zwischen asbesthaltigem Material und Glove Bag reduzieren oder den Unterdruck erhöhen.

g. Hände in die Glove Bag Ärmel einführen und anfeuchten des asbesthaltigen Materials in den Bereichen, an denen gearbeitet werden soll. Die erforderlichen Arbeiten durchführen. Jegliches bearbeitetes oder entferntes asbesthaltige Material gut durchfeuchten. Anschließend alle Werkzeuge mit Wasser innerhalb des Glove Bag reinigen, die

gereinigten Werkzeuge in eine Tasche oder einen Ärmel des Glove Bags legen und nach außen stülpen.

h. Von der Außenseite des Glove Bags aus die Werkzeugtasche herausziehen und verzwirbeln um die Tasche vom restlichen Beutel abzuschließen. Klebeband um den verzwirbelten Bereich wickeln und dann die Werkzeugtasche durch den verklebten Bereich abschneiden, während das Glove Bag abgedichtet bleibt.

i. Verunreinigte Werkzeuge (die sich noch in der Werkzeugtasche befinden) können anschließend ohne weitere Reinigung in einem neuen Glove Bag plaziert werden. Alternativ kann die Werkzeugtasche in einem Eimer mit Wasser Unterwasser geöffnet und anschließend das Werkzeug gereinigt werden.

j. Entfernen der Sprühdüse aus dem Wasserzuführungsstutzen, sowie des Abluftschlauches. Verdrehen der Anschlußstutzen und abdichten mit Klebeband. Glove Bag Gestänge auseinanderziehen und anschließend Luft mittels des K1-Staubsaugers aus dem Glove Bag absaugen. Glove Bag Folie dabei als Verpackung verwenden. Anschließend Staubsaugerschlauch entfernen und Anschlußstutzen abdichten. Glove Bag in einen Asbestabfallsack stecken, versiegeln und mit Warnaufklebern versehen.

2.5 Mini-Abschottungen

Eine Mini-Abschottungen ist im allgemeinen eine Folienabschottung eines Arbeitsbereiches. Mini-Abschottungen sind dichte Abschottungen die als zusätzliche Schutzmaßnahme dienen, um Faserfreisetzungen aus dem Arbeitsbereich zu vermeiden.

Mini-Abschottungen dienen weiterhin als Sichtschutz zwischen Arbeitern innerhalb des Schwarzbereiches und Personal außerhalb des Arbeitsbereiches. Wie bereits ausgeführt, ist die Vermeidung von Faserfreisetzung durch angemessene Arbeitsverfahren wichtigster Bestandteil zur Verhinderung von Kontaminationen außerhalb der Mini-Abschottung.

Es ist eine Vielzahl von Typen von Mini-Abschottungen einschließlich vorgefertigter Aufstell-Boxen sowie einstellbarer Haltekonstruktionen, die die Konstruktion verschiedener Größen von Mini-Abschottungen erlauben, kommerziell erhältlich. Einwegausfütterungen sind ebenfalls bei manchen Herstellern erhältlich.

Mini-Abschottungen sollten von zwei Arbeitnehmern eingerichtet werden. Des weiteren sollten die Asbestarbeiten von zwei Arbeitnehmern (1 Person in der Abschottung, 1 Person außerhalb) ausgeführt werden. Um eine Abschottung einzurichten, muß zunächst der Holzrahmen, die PVC-Rohrkonstruktion bzw. der Metallrahmen aufgestellt werden. Dieser Rahmen muß so groß sein, daß mindestens eine Person innerhalb ausreichend Platz findet sowie der gesamte Arbeitsbereich eingeschlossen ist. Die Breite und Tiefe der Abschottung sollte mindestens 1 m

betragen. Die Höhe der Abschottung ist abhängig von den Arbeiten und der Höhe des Arbeitsbereiches.

Sollte ein vollständiger Raum eingeschlossen werden, kann auf einen Rahmen verzichtet werden, es sei denn die Wandoberflächen würden durch Klebeband, das zur Befestigung der Folien verwendet werden muß, beschädigt. Ein Raum wird im allgemeinen mit einer Folienlage für die Wände und zwei Folienlagen für Boden, Fenster und Türen abgeschottet.

Sollten die Arbeiten auf einer erhöhten Arbeitsplattform durchgeführt werden, ist die Abschottung (einschließlich der ggf. notwendigen Ein-Kammer-Schleuse) bei ausreichendem Platz auf der Arbeitsplattform (einschließlich einer Fläche für den Ein- und Ausstiegsbereich außerhalb der Abschottung) einzurichten. Rahmen und Boden der Abschottung einschließlich Ein-Kammer-Schleuse mit einer Folienlage auskleiden. Auf dem Boden eine zweite Folienlagen befestigen, um die spätere Reinigung zu erleichtern und die Reißfestigkeit zu erhöhen.

Folienschleusen in den Durchgängen von Ein-Kammer-Schleuse zu Arbeitsbereich sowie Ein-Kammer-Schleuse und Ausgang einrichten. Eine Folienschleuse wird aus drei übereinanderliegenden Folienlagen erstellt. Diese drei Lagen werden an der Oberseite des Rahmens sowie abwechselnd and den Seitenwänden des Rahmens befestigt. Eine Folie mit einer Größe von ca. 1,5 m mal 1,5 m oder größer sollte außerhalb der Abschottung in den Ein- und Ausstiegsbereich gelegt werden um dort dekontaminiertes Material aus dem Arbeitsbereich zu sammeln.

Abschottungen sind mit einem Foliendach zu konstruieren falls keine Arbeiten oberhalb der Abschottung (z.B. Decken) durchgeführt werden sollen. Sollten Arbeiten oberhalb der Abschottung durchgeführt werden und die Decke besteht nicht aus asbesthaltigem Material, kann die Abschottung an der Decke befestigt werden. Befindet sich die Abschottung unterhalb einer asbesthaltigen Oberfläche, eine der folgenden Methoden verwenden:

- Sollte es nicht möglich sein, das asbesthaltige Material in die Abschottung mit einzuschließen, ist die Abschottung durch einen kleinen Zwischenraum von dem asbesthaltigen Material zutrennen.

- Sollte eine Verbindung der Abschottung mit dem asbesthaltigen Material ohne Beschädigungen an dem asbesthaltigen Material möglich sein: Dichtungsband (ca. 1,5 cm dickes, mit Schaumstoff gepolstertes Klebeband) auf den oberen Abschluß der Abschottung kleben. Anschließend Abschottung vorsichtig anheben, bis die Abschottung dicht mit der Oberfläche / Decke abschließt.
- Nachdem die Abschottung eingerichtet ist, überprüfen auf und ggf. reinigen von Schmutz, der beim installieren der Abschottung entstanden ist. Abschottungen sollten während des Einrichtens mit Unterdruck versehen werden, um Faserfreisetzungen vorzubeugen.

APPENDIX H-3

WORK INSTRUCTION SHEETS (BETRIEBSANWEISUNGEN) FOR INHOUSE WORK ACTIVITIES

Betriebsanweisung gemäß § 20 Gefahrstoffverordnung
Abbruch-, Sanierungs- und Instandhaltungsarbeiten an Asbestzementprodukten

Institut/Abteilung/Einrichtung:
_____

Adresse:
_____

Arbeitsbereich:
_____

Tätigkeit: Abbruch, Sanierung, Instandhaltung, ausschließlich Arbeiten geringen Umfangs

Datum:
_____

Gefahrstoffbezeichnung

Asbestzementprodukten

- Asbestfasern können beim Menschen erfahrungsgemäß bösartige Geschwülste (Krebs) verursachen. Werden Asbestfasern eingeatmet können schwerwiegende Staublungenerkrankungen (Asbestose, Lungenkrebs) entstehen. Beim Eindringen in Brust- oder Bauchfell ist die Entstehung bösartiger Bindegewebstumore möglich.
- Unter Asbest versteht man eine Gruppe anorganischer, natürlich vorkommender, kristalliner Silikate, die in Form von Fasern bzw. Faserbündeln auftreten. Die Fasern können bei mechanischer Beanspruchung längs in immer dünnere Fasern aufspleißen, welche in den krebserregenden Stäuben beim Umgang mit Asbest oder asbesthaltigen Materialien auftreten.
- Asbest ist unbrennbar, hitzebeständig und wärmeisolierend.
- Für Asbestzementprodukte wurden die Asbestarten Chrysotil, Krokydolith und Amosit verwendet.
- Durch den Zement werden die Asbestfasern fest gebunden. Eine Gefahr der Faserfreisetzung besteht jedoch bei der mechanischen Bearbeitung sowie bei der allmählichen Verwitterung von Asbestzementprodukten.
- Asbestzement wurde vornehmlich zur Herstellung von ebenen oder profilierten Platten für Dachdeckungen und Fassadenverkleidungen, Kanal- und Druckrohre, Lüftungsrohre, Fensterbänke oder Sonderbauteile (Blumenkästen) verwendet.

Gefahren für Mensch und Umwelt

- Werden Asbestzementprodukte mechanisch bearbeitet und z.B. angebohrt, zerschlagen oder mit Hochdruckgeräten gereinigt, werden einatembare Asbestfasern freigesetzt. Diese Tätigkeiten sind daher nicht zulässig.
- Einatmen von Asbestfaserstaub kann zu Gesundheitsschäden führen. Dauerhafte Schäden sind möglich.
- Asbestfasern können die Atemwege und Augen reizen. Asbest kann Krebs erzeugen!
- .

Schutzmaßnahmen und Verhaltensregeln

Hygienemaßnahmen:

- Im Sanierungsbereich nicht essen, trinken oder rauchen!
- Berührung mit Haut und Augen vermeiden.
- Bei Arbeitsunterbrechungen/Pausen Hände immer gründlich reinigen. Schutzanzug und Atemschutzgerät im Freien ablegen, nach Schichtende im vorgesehenen Abfallbehälter sammeln.
- Freiliegende Hautpartien nach Beendigung der Arbeiten gründlich mit Seife abwaschen, ggf. anschließend Hautpflegecreme (z.B. Stokolan) verwenden.
-

Technische und organisatorische Schutzmaßnahmen:

- Unbefugte fernhalten und Sanierungsbereich durch Hinweisschild "Zutritt verboten, Asbestfasern" kennzeichnen.
- Bei der Arbeit Schutzanzug und Partikelfiltermaske tragen.
- Straßenkleidung getrennt von Arbeitskleidung aufbewahren!
- Keine Schuttrutschen verwenden, Material nicht werfen. Nur von Hand oder mit Hebezeug umladen.
- Bauwerksöffnungen von Räumen im unmittelbaren Arbeitsbereich geschlossen halten.
- Zum Auffangen von Bruchstücken entlang der Gebäudeaußenwand Folie auslegen.
- Unbeschichtete Asbestzementprodukte an der bewitterten Oberfläche mit Faserbindemittel besprühen oder mit Sprühstrahl feuchthalten.
- Befestigungen sorgfältig lösen, Produkte - z.B. kleinformatige AZ-Fassadenplatten - möglichst nicht aus Überdeckungen über Kanten oder benachbarte Bereiche ziehen, sondern abheben und in Big-Bags sammeln.
- Nach dem Ausbau Bruchstücke/kontaminierte Kleinteile (Befestigungen) bis zur Einlagerung in festem und verschließbarem Behälter feuchthalten und abdecken.
- Nach dem Entfernen der Asbestzementprodukte Unterkonstruktionen gründlich absaugen oder feucht reinigen. Immer K1-Sauger verwenden! Spülwasser in die Kanalisation leiten.
- Nach Beendigung der Arbeiten Räume gründlich reinigen und 30-fachen Luftwechsel durchführen.
- Beschäftigungsbeschränkungen beachten!
- Arbeitsmedizinische Vorsorgeuntersuchungen beachten!
- Arbeiten dürfen nur von Personen durchgeführt werden, die eine Unterweisung nach §20 Gefahrstoffverordnung erhalten haben.

Persönliche Schutzmaßnahmen:

Augenschutz: Bei Arbeiten über Kopf, stärkerer Staubentwicklung Schutzbrille (Korbschutzbrille) tragen.

Atemschutz: Atemschutzmaske (Partikelmaske P2 / P3) oder partikelfiltrierende Halbmaske FFP2 / FFP3. Nach maximal zweistündiger Arbeitszeit halbstündige Erholungszeit einlegen.

Körperschutz: Zertifizierte Einweg- oder Mehrwegstaubschutzanzüge (Typ 5) mit Schutz gegen Asbestfasern tragen.

Handschutz: Bei längerem Hautkontakt: Schutzhandschuhe aus chromatfreiem Leder oder Kunststoff mit Gewebeeinlagen.

Verhalten im Gefahrfall

Besondere Vorkommnisse sind sofort der auftraggebenden Stelle zu melden. Bei Störungen (z.B. erheblicher Bruch) Arbeit unterbrechen. Weiteres Vorgehen mit dem Aufsichtsführenden abstimmen. Im Schadensfall, z.B. bei Transportunfällen, Unbefugte fernhalten!

Stromausfall: Arbeiten einstellen. Faserfreisetzung u.a. durch Besprühen mit Gartenspritze vermeiden.

Brand: Feuerwehr rufen oder Feuermelder betätigen. Brand mit Feuerlöscher bekämpfen. Selbstschutz beachten. Die Atemschutzmasken schützen nicht vor Kohlenmonoxid.

Verhalten im Gefahrfall

Zuständiger Arzt: _____
Unfalltelefon: _____

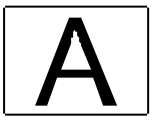
Feuerwehr: 117
Militärpolizei: 114
Büro für Arbeitssicherheit: 355-1670
Büro für Umweltschutz: 355-4421
Medizinische Hilfe: 116

Erste Hilfe

Bei jeder Erste-Hilfe-Maßnahme: Selbstschutz beachten und umgehend Arzt verständigen.
Nach Augenkontakt: Nicht reiben, sondern mit der Augenspülflasche und ggf. einer nahe gelegenen Augendusche spülen. Augenspülflaschen sind Bestandteil des Werkzeugkastens. Die Augenspülflasche ist am Arbeitsplatz bereithalten.

Ersthelfer: _____

Sachgerechte Entsorgung



Asbestzementabfälle weder werfen noch schütten, zerkleinern oder schreddern. Zur ordnungsgemäßen Entsorgung in geschlossenen, luftdichten Behältern sammeln. Behälter mit Warnaufkleber versehen. Asbestzement-Platten in Big-Bags sammeln. Die Entsorgung ist mit den zuständigen Abteilungen vor Beginn der Arbeiten abzustimmen.

Unterschrift des Arbeitnehmers:_____ Datum:_____

Betriebsanweisung gemäß § 20 Gefahrstoffverordnung
Abbruch-, Sanierungs- und Instandhaltungsarbeiten an asbesthaltigen Bodenfliesen.

Institut/Abteilung/Einrichtung:
_____

Adresse:
_____

Arbeitsbereich:
_____

Tätigkeit: Abbruch, Sanierung, Instandhaltung, ausschließlich Arbeiten geringer Exposition (BIA Verfahren BT 15

Datum:_____

Gefahrstoffbezeichnung

Asbesthaltige Bodenfliesen

- Asbestfasern können beim Menschen erfahrungsgemäß bösartige Geschwülste (Krebs) verursachen. Werden Asbestfasern eingeatmet können schwerwiegende Staublungenerkrankungen (Asbestose, Lungenkrebs) entstehen. Beim Eindringen in Brust- oder Bauchfell ist die Entstehung bösartiger Bindegewebstumore möglich.
- Unter Asbest versteht man eine Gruppe anorganischer, natürlich vorkommender, kristalliner Silikate, die in Form von Fasern bzw. Faserbündeln auftreten. Die Fasern können bei mechanischer Beanspruchung längs in immer dünnere Fasern aufspleißen, welche in den krebserregenden Stäuben beim Umgang mit Asbest oder asbesthaltigen Materialien auftreten.
- Asbest ist unbrennbar, hitzebeständig und wärmeisolierend.
- Durch den PVC werden die Asbestfasern fest gebunden. Eine Gefahr der Faserfreisetzung besteht jedoch bei der mechanischen Bearbeitung von Bodenfliesen oder der Bearbeitung von asbesthaltigen Klebern.

Gefahren für Mensch und Umwelt

- Werden asbesthaltige Bodenfliesen mechanisch bearbeitet und z.B. zerbrochen, gesägt oder mit Hochdruckgeräten gereinigt, werden einatembare Asbestfasern freigesetzt. Diese Tätigkeiten sind daher nicht zulässig.
- Einatmen von Asbestfaserstaub kann zu Gesundheitsschäden führen. Dauerhafte Schäden sind möglich.
- Asbestfasern können die Atemwege und Augen reizen. Asbest kann Krebs erzeugen!
- .

Schutzmaßnahmen und Verhaltensregeln

Hygienemaßnahmen:

- Im Sanierungsbereich nicht essen, trinken oder rauchen!
- Berührung mit Haut und Augen vermeiden.
- Bei Arbeitsunterbrechungen/Pausen Hände immer gründlich reinigen. Schutzanzug und Atemschutzgerät im Freien ablegen, nach Schichtende im vorgesehenen Abfallbehälter sammeln.
- Freiliegende Hautpartien nach Beendigung der Arbeiten gründlich mit Seife abwaschen, ggf. anschließend Hautpflegecreme (z.B. Stokolan) verwenden.
-

Technische und organisatorische Schutzmaßnahmen:

- Unbefugte fernhalten und Sanierungsbereich durch Hinweisschild "Zutritt verboten, Asbestfasern" kennzeichnen.
- Bei der Arbeit Schutzanzug und Partikelfiltermaske tragen.
- Straßenkleidung getrennt von Arbeitskleidung aufbewahren!
- Keine Schuttrutschen verwenden, Material nicht werfen. Nur von Hand oder mit Hebezeug umladen.
- Bauwerksöffnungen von Räumen im unmittelbaren Arbeitsbereich geschlossen halten.
- Bodenfliesen mittels Handspachtel bruchfrei vom Boden lösen.
- Während des Ablösens Trennfläche anfeuchten.
- Ausgebaute Bodenfliesen unmittelbar in Kunststoffsäcke verpacken. Säcke anschließend zukleben und mit Warnaufklebern versehen.
- Nach Beendigung der Arbeiten Räume gründlich reinigen und 30-fachen Luftwechsel durchführen.
- Beschäftigungsbeschränkungen beachten!
- Arbeitsmedizinische Vorsorgeuntersuchungen beachten!
- Arbeiten dürfen nur von Personen durchgeführt werden, die eine Unterweisung nach §20 Gefahrstoffverordnung erhalten haben.
- Arbeitsausführung nur durch fachkundige Personen. Es müssen mindestens zwei Personen zusammenwirken.

Persönliche Schutzmaßnahmen:

Augenschutz: Bei Arbeiten über Kopf, stärkerer Staubentwicklung Schutzbrille (Korbschutzbrille) tragen.

Atemschutz: Atemschutzmaske (Partikelmaske P2 / P3) oder partikelfiltrierende Halbmaske FFP2 / FFP3. Nach maximal zweistündiger Arbeitszeit halbstündige Erholungszeit einlegen.

Körperschutz: Zertifizierte Einweg- oder Mehrwegstaubschutzanzüge (Typ 5) mit Schutz gegen Asbestfasern tragen.

Handschutz: Bei längerem Hautkontakt: Schutzhandschuhe aus chromatfreiem Leder oder Kunststoff mit Gewebeeinlagen.

Verhalten im Gefahrfall

Besondere Vorkommnisse sind sofort der auftraggebenden Stelle zu melden. Bei Störungen (z.B. erheblicher Bruch) Arbeit unterbrechen. Weiteres Vorgehen mit dem Aufsichtsführenden abstimmen. Im Schadensfall, z.B. bei Transportunfällen, Unbefugte fernhalten!

Stromausfall: Arbeiten einstellen. Faserfreisetzung u.a. durch Besprühen mit Gartenspritze vermeiden.

Brand: Feuerwehr rufen oder Feuermelder betätigen. Brand mit Feuerlöscher bekämpfen. Selbstschutz beachten. Die Atemschutzmasken schützen nicht vor Kohlenmonoxid.

Verhalten im Gefahrfall

Zuständiger Arzt: _____
Unfalltelefon: _____

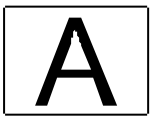
Feuerwehr: 117
Militärpolizei: 114
Büro für Arbeitssicherheit: 355-1670
Büro für Umweltschutz: 355-4421
Medizinische Hilfe: 116

Erste Hilfe

Bei jeder Erste-Hilfe-Maßnahme: Selbstschutz beachten und umgehend Arzt verständigen. Nach Augenkontakt: Nicht reiben, sondern mit der Augenspülflasche und ggf. einer nahe gelegenen Augendusche spülen. Augenspülflaschen sind Bestandteil des Werkzeugkastens. Die Augenspülflasche ist am Arbeitsplatz bereithalten.

Ersthelfer: _____

Sachgerechte Entsorgung



Asbestabfälle weder werfen noch schütten, zerkleinern oder schreddern. Zur ordnungsgemäßen Entsorgung in geschlossenen, luftdichten Behältern sammeln. Behälter mit Warnaufkleber versehen. Asbestzement-Platten in Big-Bags sammeln. Die Entsorgung ist mit den zuständigen Abteilungen vor Beginn der Arbeiten abzustimmen.

Unterschrift des Arbeitnehmers:_____ Datum:_____

Betriebsanweisung gemäß § 20 Gefahrstoffverordnung

Abbruch-, Sanierungs- und Instandhaltungsarbeiten an asbesthaltigen Flachdichtungen.

Institut/Abteilung/Einrichtung:
_____

Adresse:
_____

Arbeitsbereich:
_____

Tätigkeit: Abbruch, Sanierung, Instandhaltung, ausschließlich Arbeiten geringer Exposition (BIA Verfahren AT 1)

Datum:_____

Gefahrstoffbezeichnung

Asbesthaltige Flachdichtungen

- Asbestfasern können beim Menschen erfahrungsgemäß bösartige Geschwülste (Krebs) verursachen. Werden Asbestfasern eingeatmet können schwerwiegende Staublungenerkrankungen (Asbestose, Lungenkrebs) entstehen. Beim Eindringen in Brust- oder Bauchfell ist die Entstehung bösartiger Bindegewebstumore möglich.
- Unter Asbest versteht man eine Gruppe anorganischer, natürlich vorkommender, kristalliner Silikate, die in Form von Fasern bzw. Faserbündeln auftreten. Die Fasern können bei mechanischer Beanspruchung längs in immer dünnere Fasern aufspleißen, welche in den krebserregenden Stäuben beim Umgang mit Asbest oder asbesthaltigen Materialien auftreten.
- Asbest ist unbrennbar, hitzebeständig und wärmeisolierend.

Gefahren für Mensch und Umwelt

- Werden asbesthaltige Flachdichtungen mechanisch bearbeitet und z.B. zerbrochen, oder abgeschliffen, werden einatembare Asbestfasern freigesetzt. Diese Tätigkeiten sind daher nicht zulässig.
- Einatmen von Asbestfaserstaub kann zu Gesundheitsschäden führen. Dauerhafte Schäden sind möglich.
- Asbestfasern können die Atemwege und Augen reizen. Asbest kann Krebs erzeugen!
- .

Schutzmaßnahmen und Verhaltensregeln

Hygienemaßnahmen:

- Im Sanierungsbereich nicht essen, trinken oder rauchen!
- Berührung mit Haut und Augen vermeiden.
- Bei Arbeitsunterbrechungen/Pausen Hände immer gründlich reinigen. Schutzanzug und Atemschutzgerät im Freien ablegen, nach Schichtende im vorgesehenen Abfallbehälter sammeln.
- Freiliegende Hautpartien nach Beendigung der Arbeiten gründlich mit Seife abwaschen, ggf. anschließend Hautpflegecreme (z.B. Stokolan) verwenden.
-

Technische und organisatorische Schutzmaßnahmen:

- Unbefugte fernhalten und Sanierungsbereich durch Hinweisschild "Zutritt verboten, Asbestfasern" kennzeichnen.
- Bei der Arbeit Schutzanzug und Partikelfiltermaske tragen.
- Straßenkleidung getrennt von Arbeitskleidung aufbewahren!
- Arbeiten gemäß BIA-Verfahren AT 1 durchführen.
- Flanschdichtungen ausreichend mit Penetriermittel benetzen.
- Während der Demontage Staub mit K1-Staubsauger absaugen.
- Flanschdichtungen bruchfrei ausbauen.
- Ausgebaute Flanschdichtungen staubdicht verpacken. Säcke anschließend zukleben und mit Warnaufklebern versehen.
- Nach Beendigung der Arbeiten Räume gründlich reinigen und 30-fachen Luftwechsel durchführen.
- Beschäftigungsbeschränkungen beachten!
- Arbeitsmedizinische Vorsorgeuntersuchungen beachten!
- Arbeiten dürfen nur von Personen durchgeführt werden, die eine Unterweisung nach §20 Gefahrstoffverordnung erhalten haben.
- Arbeitsausführung nur durch fachkundige Personen.

Persönliche Schutzmaßnahmen:

Atemschutz: Atemschutzmaske (Partikelmaske P2 / P3) oder partikelfiltrierende Halbmaske FFP2 / FFP3. Nach maximal zweistündiger Arbeitszeit halbstündige Erholungszeit einlegen.
Körperschutz: Zertifizierte Einweg- oder Mehrwegstaubschutzanzüge (Typ 5) mit Schutz gegen Asbestfasern tragen.
Handschutz: Bei längerem Hautkontakt: Schutzhandschuhe aus chromatfreiem Leder oder Kunststoff mit Gewebeeinlagen.

Verhalten im Gefahrfall

Besondere Vorkommnisse sind sofort der auftraggebenden Stelle zu melden. Bei Störungen (z.B. erheblicher Bruch) Arbeit unterbrechen. Weiteres Vorgehen mit dem Aufsichtsführenden abstimmen. Im Schadensfall, z.B. bei Transportunfällen, Unbefugte fernhalten!
Stromausfall: Arbeiten einstellen. Faserfreisetzung u.a. durch Besprühen mit Gartenspritze vermeiden.
Brand: Feuerwehr rufen oder Feuermelder betätigen. Brand mit Feuerlöscher bekämpfen. Selbstschutz beachten. Die Atemschutzmasken schützen nicht vor Kohlenmonoxid.

Verhalten im Gefahrfall

Zuständiger Arzt: _____
Unfalltelefon: _____

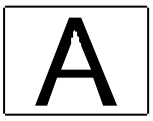
Feuerwehr: 117
Militärpolizei: 114
Büro für Arbeitssicherheit: 355-1670
Büro für Umweltschutz: 355-4421
Medizinische Hilfe: 116

Erste Hilfe

Bei jeder Erste-Hilfe-Maßnahme: Selbstschutz beachten und umgehend Arzt verständigen.
Nach Augenkontakt: Nicht reiben, sondern mit der Augenspülflasche und ggf. einer nahe gelegenen Augendusche spülen. Augenspülflaschen sind Bestandteil des Werkzeugkastens. Die Augenspülflasche ist am Arbeitsplatz bereithalten.

Ersthelfer: _____

Sachgerechte Entsorgung



Asbestabfälle weder werfen noch schütten, zerkleinern oder schreddern. Zur ordnungsgemäßen Entsorgung in geschlossenen, luftdichten Behältern sammeln. Behälter mit Warnaufkleber versehen. Asbestzement-Platten in Big-Bags sammeln. Die Entsorgung ist mit den zuständigen Abteilungen vor Beginn der Arbeiten abzustimmen.

Unterschrift des Arbeitnehmers:_____ Datum:_____

Betriebsanweisung gemäß § 20 Gefahrstoffverordnung

Abbruch-, Sanierungs- und Instandhaltungsarbeiten an asbesthaltigen Rohrisolierungen.

Institut/Abteilung/Einrichtung:
_____

Adresse:
_____

Arbeitsbereich:
_____

Tätigkeit: Abbruch, Sanierung, Instandhaltung, ausschließlich Arbeiten geringer Exposition (Glove Bag Verfahren)

Datum:_____

Gefahrstoffbezeichnung

Asbesthaltige Rohrisolierungen

- Asbestfasern können beim Menschen erfahrungsgemäß bösartige Geschwülste (Krebs) verursachen. Werden Asbestfasern eingeatmet können schwerwiegende Staublungenerkrankungen (Asbestose, Lungenkrebs) entstehen. Beim Eindringen in Brust- oder Bauchfell ist die Entstehung bösartiger Bindegewebstumore möglich.
- Unter Asbest versteht man eine Gruppe anorganischer, natürlich vorkommender, kristalliner Silikate, die in Form von Fasern bzw. Faserbündeln auftreten. Die Fasern können bei mechanischer Beanspruchung längs in immer dünnere Fasern aufspleißen, welche in den krebserregenden Stäuben beim Umgang mit Asbest oder asbesthaltigen Materialien auftreten.
- Asbest ist unbrennbar, hitzebeständig und wärmeisolierend.

Gefahren für Mensch und Umwelt

- Werden asbesthaltige Rohrisolierungen mechanisch bearbeitet und z.B. zerbrochen, oder beschädigt, werden einatembare Asbestfasern freigesetzt. Diese Tätigkeiten sind daher nicht zulässig.
- Einatmen von Asbestfaserstaub kann zu Gesundheitsschäden führen. Dauerhafte Schäden sind möglich.
- Asbestfasern können die Atemwege und Augen reizen. Asbest kann Krebs erzeugen!

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Schutzmaßnahmen und Verhaltensregeln

Hygienemaßnahmen:

- Im Sanierungsbereich nicht essen, trinken oder rauchen!
- Berührung mit Haut und Augen vermeiden.
- Bei Arbeitsunterbrechungen/Pausen Hände immer gründlich reinigen. Schutzanzug und Atemschutzgerät im Freien ablegen, nach Schichtende im vorgesehenen Abfallbehälter sammeln.
- Freiliegende Hautpartien nach Beendigung der Arbeiten gründlich mit Seife abwaschen, ggf. anschließend Hautpflegecreme (z.B. Stokolan) verwenden.

Technische und organisatorische Schutzmaßnahmen:

- Unbefugte fernhalten und Sanierungsbereich durch Hinweisschild "Zutritt verboten, Asbestfasern" kennzeichnen.
- Bei der Arbeit Schutzanzug und Partikelfiltermaske tragen.
- Straßenkleidung getrennt von Arbeitskleidung aufbewahren!
- Arbeiten gemäß BIA-Verfahren AT 1 durchführen.
- Der Arbeitsbereich ist mit dem Glove Bag staubdicht abzutrennen.

Betriebsanweisung asbesthaltige Rohrisolierungen

- Es darf niemals an heißen Rohren (über 65° Celsius) gearbeitet werden.
- Nach Beendigung der Arbeiten Räume gründlich reinigen und 30-fachen Luftwechsel durchführen.
- Beschäftigungsbeschränkungen beachten!
- Arbeitsmedizinische Vorsorgeuntersuchungen beachten!
- Arbeiten dürfen nur von Personen durchgeführt werden, die eine Unterweisung nach §20 Gefahrstoffverordnung erhalten haben.
- Arbeitsausführung nur durch fachkundige Personen.

Persönliche Schutzmaßnahmen:

Atemschutz: Atemschutzmaske (Partikelmaske P2 / P3) oder partikelfiltrierende Halbmaske FFP2 / FFP3. Nach maximal zweistündiger Arbeitszeit halbstündige Erholungszeit einlegen.
Körperschutz: Zertifizierte Einweg- oder Mehrwegstaubschutzanzüge (Typ 5) mit Schutz gegen Asbestfasern tragen.

Verhalten im Gefahrfall

Besondere Vorkommnisse sind sofort der auftraggebenden Stelle zu melden. Bei Störungen (z.B. erheblicher Bruch) Arbeit unterbrechen. Weiteres Vorgehen mit dem Aufsichtsführenden abstimmen. Im Schadensfall, z.B. bei Transportunfällen, Unbefugte fernhalten!
Stromausfall: Arbeiten einstellen. Faserfreisetzung u.a. durch Besprühen mit Gartenspritze vermeiden.
Brand: Feuerwehr rufen oder Feuermelder betätigen. Brand mit Feuerlöscher bekämpfen. Selbstschutz beachten. Die Atemschutzmasken schützen nicht vor Kohlenmonoxid.

Zuständiger Arzt: _____
Unfalltelefon: _____

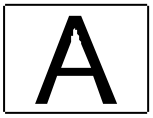
Feuerwehr: 117 Militärpolizei: 114
Büro für Arbeitssicherheit: 355-1670
Büro für Umweltschutz: 355-4421
Medizinische Hilfe: 116

Erste Hilfe

Bei jeder Erste-Hilfe-Maßnahme: Selbstschutz beachten und umgehend Arzt verständigen.
Nach Augenkontakt: Nicht reiben, sondern mit der Augenspülflasche und ggf. einer nahe gelegenen Augendusche spülen. Augenspülflaschen sind Bestandteil des Werkzeugkastens. Die Augenspülflasche ist am Arbeitsplatz bereithalten.

Ersthelfer: _____

Sachgerechte Entsorgung



Asbestabfälle weder werfen noch schütten, zerkleinern oder schreddern. Zur ordnungsgemäßen Entsorgung in geschlossenen, luftdichten Behältern sammeln. Behälter mit Warnaufkleber versehen. Asbestzement-Platten in Big-Bags sammeln. Die Entsorgung ist mit den zuständigen Abteilungen vor Beginn der Arbeiten abzustimmen.

Unterschrift des Arbeitnehmers:_____ Datum:_____

APPENDIX H-4

WORK PRACTICES FOR WORK WITH LOW EXPOSURE IAW NR. 2.10 ABS. 8, TRGS 519 FOR INHOUSE WORK ACTIVITIES

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Asbesthaltige Flachdichtungen

Stand: 1. Februar 1996

a

AT 1

Anwendungsbereich

Ausbau von asbesthaltigen statisch belasteten lt-Flachdichtungen aus Rohrleitungen, Deckeln oder Flanschen ($\rho > 1000$ kg/m³)

- thermisch belasteten Dichtungen bis DN 400 (über 200 °C)
- thermisch nicht belastete Dichtungen (bis 200 °C)
  (z.B.Trafodichtungen, Dichtungen innerhalb der Gasversorgung)

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Arbeitsmittel (z.B. Werkzeuge, Schaber oder Spachtel, reißfeste Folie oder andere geeignete Behältnisse zum Auffangen von Dichtungen oder Dichtungsteilen, Klebeband)
- gem. TRGS 519 geeigneter, baumustergeprüfter K1-Staubsauger [TRGS 519, Nr. 7.3 (6)]*)

  Staubsauger, die zuvor bei Arbeiten in abgeschotteten Bereichen (sogenannte Schwarzbereiche) eingesetzt wurden, dürfen nur dann verwendet werden, wenn eine Kontamination der Geräte (z.B. auch innere Kontamination über Bypaßkühlung im Motorgehäuse) ausgeschlossen werden kann
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.2 (3) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack) zur staubdichten Verpackung der asbesthaltigen Dichtung, von Dichtungsteilen sowie mit Dichtungsresten kontaminierter Verbrauchsmaterialien (z.B. Lappen, Pinsel etc.)
- geeignetes Penetriermittel (z.B. Rostlöser, Kriechöl) mit Auftragevorrichtung (z.B. Pinsel oder Sprühflasche)
  (Geeignet sind Penetriermittel, die einen guten haftablösenden und die Dichtung durchdringenden Effekt haben. Falls erforderlich, sollte ebenfalls auf einen hohen Flammpunkt geachtet werden.)
- Arbeitsplatzabsperrung/Schilder mit Zutrittsverbotskennzeichnung

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Ausbreiten der Folie oder Anbringen des Auffangbehälters
- Flanschpaare dichtungsseitig mit Penetriermittel benetzen und einwirken lassen
- Flanschschrauben lockern; Dichtungsränder erneut mit Penetriermittel benetzen und einwirken lassen
- Lösen und Ziehen der Flanschschrauben, dabei Absaugen mit K1-Staubsauger *)
- Lösen bzw. Abheben der Flanschverbindung
- Absaugen mit K1-Staubsauger *)
- Intensives Benetzen der freiliegenden Dichtung
- Dichtung abnehmen
- Bei festsitzender bzw. zerstörter Dichtung: Abschaben der Dichtung mit Spachtel oder Schaber; Dichtung dabei intensiv benetzen. Kleinere, lose Dichtungsreste mit K1-Staubsauger absaugen *)
- Staubdichtes Verpacken der asbesthaltigen Dichtung bzw. der Dichtungsteile in geeigneten Behälter
- Reinigen bzw. Verpacken der Arbeitsmittel sowie der Verbrauchsmaterialien in geeigneten Behälter
- Optische Kontrolle, ggf. Reinigen des Arbeitsbereiches mit Reinigungstüchern oder feuchtem Lappen bzw. mit K1 - Sauger, Saugdüse danach dicht abkleben*)
- Einbau einer neuen (asbestfreien) Dichtung
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA**) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

**) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- ***) in Ex-Bereichen muß auf den Einsatz eines K1-Staubsaugers verzichtet werden. Treten dann beim Ausbau Störungen auf (z.B. Schabarbeiten), ist der sachkundige Verantwortliche hinzuzuziehen**
- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

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Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Asbesthaltige Stopfbuchsen

Stand: 1. Februar 1996

a

AT 2

Anwendungsbereich

Ausbau asbesthaltiger Packungen bei Pumpen, Schiebern und sonstigen Armaturen

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Arbeitsmittel (z.B. Werkzeuge, Packungszieher, reißfeste Kunststoffolie)
- gem. TRGS 519 geeigneter, baumustergeprüfter K1-Staubsauger [TRGS 519, Nr. 7.3 (6)]

  Staubsauger, die zuvor bei Arbeiten in abgeschotteten Bereichen (sogenannte Schwarzbereiche) eingesetzt wurden, dürfen nur dann verwendet werden, wenn eine Kontamination der Geräte (z.B. auch innere Kontamination über Bypaßkühlung im Motorgehäuse) ausgeschlossen werden kann
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack) zur staubdichten Verpackung der asbesthaltigen Dichtung, von Dichtungsteilen sowie mit Dichtungsresten kontaminierter Verbrauchsmaterialien (z.B. Lappen, Pinsel etc.)
- geeignetes Penetriermittel (z.B. Rostlöser, Kriechöl) mit Auftragevorrichtung (z.B. Pinsel oder Sprühflasche) (Geeignet sind Penetriermittel, die einen guten haftablösenden und die Dichtung durchdringenden Effekt haben. Falls erforderlich, sollte ebenfalls auf einen hohen Flammpunkt geachtet werden.)
- geeignetes Faserbindemittel
- Reinigungstücher/-mittel
- Arbeitsplatzabsperrung/Schilder mit Zutrittsverbotskennzeichnung

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Benachbarte und unterhalb der Arbeitsstelle liegende Bereiche abdecken (z.B. mit reißfester Kunststoffolie)
- Lösen der Stopfbuchsenbrille
- Absaugen der freiliegenden Dichtung mit K1-Staubsauger
- intensives Benetzen der Packungsringe mit Penetriermittel (Einwirkzeit beachten)
- Ziehen der Packung (z.B. mit Packungszieher) bzw. vorsichtiges Lösen durch Aushebeln (Absaugen mit K1-Staubsauger)
- Verpacken des asbesthaltigen Materials in geeigneten Behälter
- Absaugen und feuchtes Auswischen der Stopfbuchse
- Reinigen des Arbeitsbereiches und der ausgelegten Folie (Absaugen mit K1-Staubsauger bzw. feuchtes Wischen oder Einsprühen der Folie mit geeignetem Faserbindemittel)
- Saugdüse des K1-Staubsaugers dicht abkleben
- Packungsreste, Reinigungstücher und Abdeckung (Folie) in geeigneten Behälter geben und verschließen
- Einbau der neuen (asbestfreien) Packung
- Arbeitsbereich freigeben

(!! Das Ausbohren der Packungsringe ist unzulässig!!)

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

STOP296.DOC

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Kfz-Kupplungen

Stand: 1. Februar 1996

a

AT 3

Anwendungsbereich: Austausch asbesthaltiger Kupplungsscheiben an Kraftfahrzeugen

Organisatorische Maßnahmen

- Sachkundiger Verantwortlicher nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Kfz-Handwerker

Arbeitsvorbereitung

Bereitzustellen sind:

- benötigte Werkzeuge
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Reinigungstücher
- Netz-/Penetriermittel (z.B. Bremsenreinigungsmittel, Wasser mit Spülmittel)
- Sprüheinrichtung für Netz-/Penetriermittel (z.B. Sprühdose/-behälter mit Sprührohr/-schlauch

Arbeitsausführung

- Öffnungen in der Kupplungsglocke herstellen z.B. durch
  - Entfernen des Deckel von Kontrollöffnungen
  - Ausbau des Anlassers
  - Ausbau des Kupplungsmitnehmerzylinders
- Innenraum der Kupplungsglocke durch die Öffnung gründlich mit Netz-/Penetriermittel einsprühen
- Kupplungsglocke, Druckplatte bzw. Schwungrad und Mitnehmerscheibe abbauen
- Kupplungsgehäuse innen gründlich von Hand mit Reinigungstücher unter Einsatz von Netz-/Penetriermittel feucht reinigen
- ausgebaute Kupplungsteile und Werkzeug gründlich von Hand mit Reinigungstüchern unter Einsatz von Netz-/Penetriermittel feucht reinigen
- Mitnehmerscheibe ohne sie zu beschädigen und die benutzten Reinigungstücher sofort in geeigneten Behälter für asbesthaltige Abfälle legen und diesen verschließen
- Kupplung mit asbestfreier Mitnehmerscheibe wieder zusammenbauen

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

KUPP296.DOC

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Kfz-Scheibenbremsen

Stand: 1. Februar 1996

a

AT 4

Anwendungsbereich	Austausch asbesthaltiger Scheibenbremsbeläge an Fahrzeugen

Organisatorische Maßnahmen

- Sachkundiger Verantwortlicher nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Kfz-Handwerker

Arbeitsvorbereitung

Bereitzustellen sind:

- benötigte Werkzeuge
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Reinigungstücher
- Netz-/Penetriermittel (z.B. Bremsenreinigungsmittel, Wasser mit Spülmittel)
- Bremsenwäscher mit max. 6 bar Arbeitsdruck und Auffangwanne **oder** Sprüheinrichtung für Netz-/Penetriermittel (z.B. Sprühdose/-behälter mit Sprührohr/-schlauch)

Arbeitsausführung

- Rad und Felge abmontieren
- Bremsen und Radaufhängung mit Bremsenwäscher abwaschen **oder** mit Netz-/Penetriermittel gründlich einsprühen
- Bremsklötze ausbauen
- Bremse, Radaufhängung, ausgebaute Bremsteile und Werkzeug gründlich von Hand mit Reinigungstüchern unter Einsatz von Netz-/Penetriermittel feucht reinigen
- aufgefangene Reinigungsflüssigkeit in geschlossenen Sammelbehälter einfüllen und Auffangwanne von Hand mit Reinigungstuch trockenwischen
- Bremsklötze ohne sie zu beschädigen und die benutzten Reinigungstücher sofort in geeigneten Behälter für asbesthaltige Abfälle legen und diese verschließen
- Bremse mit asbestfreien Bremsklötzen wieder zusammenbauen

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

SCHB296.DOC

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Kfz-Trommelbremsen

Stand: 1. Februar 1996

AT 5

Anwendungsbereich	Austausch asbesthaltiger Trommelbremsbeläge an Fahrzeugen

Organisatorische Maßnahmen

- Sachkundiger Verantwortlicher nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- benötigte Werkzeuge
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Reinigungstücher
- Netz-/Penetriermittel (z.B. Bremsenreinigungsmittel, Wasser mit Spülmittel)
- Bremsenwäscher mit max. 6 bar Arbeitsdruck und Auffangwanne
  oder
  Sprüheinrichtung für Netz-/Penetriermittel (z.B. Sprühdose/-behälter mit Sprührohr/-schlauch)

  oder
  gem. TRGS 519 geeigneter, baumustergeprüfter K1-Staubsauger [TRGS 519, Nr. 7.3 (6)]*)
  Staubsauger, die zuvor bei Arbeiten in abgeschotteten Bereichen (sogenannte Schwarzbereiche) eingesetzt wurden, dürfen nur dann verwendet werden, wenn eine Kontamination der Geräte (z.B. auch innere Kontamination über Bypaßkühlung im Motorgehäuse) ausgeschlossen werden kann

Arbeitsausführung

- Rad und Felge abmontieren
- Bremstrommel lösen bis ein kleiner (ca. 2 cm breiter) Spalt zwischen Bremstrommel und Grundplatte entsteht
- Bremstrommel außen und innen mit Bremsenwäscher gründlich anfeuchten
  oder mit Netz-/Penetriermittel gründlich einsprühen
  oder mit K1-Staubsauger absaugen
- Bremstrommel ganz abnehmen
- Radbremse und Bremstrommel innen gründlich mit dem Bremsenwäscher abwaschen
  oder mit Netz-/Penetriermittel gründlich einsprühen
  oder mit K1-Staubsauger absaugen
- Bremstrommel gründlich von Hand mit Reinigungstüchern unter Einsatz von Netz-/Penetriermittel feucht reinigen
- Bremse zerlegen
- ausgebaute Bremsteile, Grundplatte und Werkzeug gründlich von Hand mit Reinigungstüchern unter Einsatz von Netz-/Penetriermittel feucht reinigen
- aufgefangene Reinigungsflüssigkeit in geschlossenen Sammelbehälter einfüllen und Auffangwanne von Hand mit Reinigungstuch trockenwischen
- Bremsbacken mit Belägen ohne sie zu beschädigen und die benutzten Reinigungstücher sofort in geeigneten Behälter für asbesthaltige Abfälle legen und diesen verschließen
- Bremse mit asbestfreien Bremsbelägen wieder zusammenbauen

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS

Asbestzement (AZ) - Wasserrohrleitungen
- Anbohrverfahren -

Stand: 1. Februar 1996

a

BT 1

Anwendungsbereich: Anbohren von AZ-Rohren in erdverlegten Wasserrohrleitungen mittels *Anbohrarmatur* zum Anbinden von Hausanschlußleitungen

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen.

Dieses Verfahren darf nur mit Ausnahmegenehmigung (einmalig, unternehmensbezogen) der zuständigen Behörde eingesetzt werden.

Arbeitsvorbereitung

Bereitzustellen sind:

- Absperrmaterial für Gefahrenbereich
- Handbrause/Waschbürste und Wasserentnahmestelle
- Anbohrarmatur nach DIN 3543 Teil 2 für AZ-Rohre
- Anbohrgerät mit hartmetallbestücktem Bohrer oder hartmetallbestücktem Lochfräser, Spülschlauch und je nach Bauart Hilfsventil

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Rohr maschinell grob freilegen; Restarbeiten in Handschachtung. Rohr und Boden feucht halten
- Vorgesehene Anbohrstelle feucht, ggf. mittels Wasserstrahl und Handbrause/Waschbürste vom Restboden reinigen
- Montieren der Anbohrarmatur; je nach Armaturenbauart Hilfsventil einschrauben und Spülschlauch befestigen
- Anbohrgerät aufsetzen, je nach Armaturenbauart vorher Ventileinsatz entfernen
- Anbohren des AZ-Rohres
- Nach der Anbohrung austretendes Wasser mittels Spülschlauch in das Erdreich der Baugrube ablassen
- Schließen der Armatur oder des Hilfsventils und Demontage des Anbohrgerätes
- Je nach Armaturenbauart Montieren des Ventileinsatzes in die Anbohrarmatur, Abbau des Spülschlauches und des Hilfsventils
- Reinigen der Arbeitsmittel mit Wasser, Ablassen des Reinigungswassers in das Erdreich der Baugrube
- Boden der Baugrube sowie freigelegtes AZ-Rohr mit einer Füllsandschicht abdecken
- Anbinden der neu verlegten Hausanschlußleitung an den Anschlußstutzen der Anbohrarmatur
- Verfüllen der Baugrube
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Asbestzement (AZ)-Wasserrohrleitungen - Halbschalenverfahren -

Stand: 1. Februar 1996

a

BT 2

Anwendungsbereich

Ausbau von AZ-Rohren bis DN 400 in erdverlegten Wasserrohrleitungen (z.B. bei Rohrbrüchen, Einbindungs- und Umlegungsarbeiten). Trennen der Rohre mittels *Halbschalenverfahren* (Rohrkapsel) einschließlich Aufsägen der Rohrkupplungen

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Absperrmaterial für Gefahrenbereich
- Gummistiefel
- Handbrause/Waschbürste und Wasserentnahme-stelle
- Geeignetes Faserbindemittel mit Auftragevorrichtung (Pinsel, Sprühflasche oder Drucksprühgerät) **oder** reißfeste PE-Folie / Klebeband*
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Langsamlaufende, hartmetallbestückte Trenngeräte (Sägen, Fräsen ; max. 4 Zähne/Zoll, v_{max} 1,5 m/s). Bei elektrisch betriebenen Trenngeräten müssen diese mit einer geeigneten Kapselung (**Schutzart mindestens IP 54**) ausgestattet sein und über einen vorgeschalteten Fehlerstrom (FI)-Schutzschalter ($I \leq 30$ mA) betrieben werden. Bei überflutetem Graben dürfen nur nichtelektrisch betriebene Geräte (Handsäge, Druckluftsäge oder - fräse), die die obengenannten Kriterien erfüllen, verwendet werden
- Aufkleber"Achtung, enthält Asbest"
- Halbschalentrennvorrichtung (Rohrkapsel) mit Reinigungsadapter und Filtersack
- Holzbohlen, Vorschlaghammer u. Keile zum Unterbauen
- Rohrhebeklammer oder Textilhebebänder für größere Rohrnennweiten
- Neues Rohrstück und Rohrkupplung (z.B. aus Stahl, GGG, Kunststoff)

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Rohr maschinell grob freilegen; Restarbeiten in Handschachtung. Rohr und Boden feucht halten
- Vorgesehene Trennstellen feucht, ggf. mittels Wasserstrahl und Handbrause/Waschbürste vom Restboden reinigen
- Dichtes Montieren der beiden Halbschalen (Rohrkapsel) um das Rohr; Unterbauen der Rohrkapsel mit Verbauhölzern und Keilen
- Trennen des Rohres an zwei Stellen durch Hammer-schläge auf die beiden Meißel der Rohrkapsel
- Obere Halbschale der Rohrkapsel öffnen, das abgetrennte Rohrstück und größere Bruchstücke entnehmen und in geeigneten Behälter geben
- AZ-Rohr auf ganzer Länge ausbauen! Hierzu Rohrenden beiderseits der Trennstellen aus der Reka-Kupplung ziehen; ggf. Kupplungen mit Trenngerät auftrennen (hierbei mit Wasser besprühen)
- AZ-Rohrstücke aus der Baugrube heben
- AZ-Rohrstücke für Lagerung an der Baustelle oder für Transport auf LKW vollständig mit Restfaserbindemittel versiegeln **oder** vollständig in Folie einschlagen **oder** im noch feuchten Zustand sofort in geeigneten Behälter geben und diesen verschließen
- Einbau eines neuen Rohr- oder Formstückes mittels Rohrkupplungen (jeweils z.B. aus Stahl, GGG, Kunststoff); AZ-Rohranschlußstelle hierbei **nicht** kalibrieren!
- Reinigen der Arbeitsmittel mit Wasser. Rohrkapsel mittels Reinigungsadapter und Filtersack mit Wasser durchspülen. Ablassen des Reinigungswassers in das Erdreich der Baugrube. Filtersack in geeigneten Behälter geben
- Verfüllen der Baugrube
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS

Asbestzement (AZ)-Wasserrohrleitungen - Rohrknacken -

Stand: 1. Februar 1996

a

BT 3

Anwendungsbereich

Ausbau von AZ-Rohren bis DN 500 in erdverlegten Wasserrohrleitungen (z.B. bei Rohrbrüchen, Einbindungs- und Umlegungsarbeiten). Trennen der Rohre mittels *Rohrknacken* (Kettenrohrschneider) einschließlich Aufsägen der Rohrkupplungen

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Absperrmaterial für Gefahrenbereich
- Gummistiefel
- Handbrause/Waschbürste und Wasserentnahmestelle
- Geeignetes Faserbindemittel mit Auftragevorrichtung (Pinsel, Sprühflasche oder Drucksprühgerät) **oder** reißfeste PE-Folie / Klebeband
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Hydraulik-Rohrschneider für DN 100 bis DN 500 bzw. Handrohrschneider für DN 50 bis DN 400
- Langsamlaufende, hartmetallbestückte Trenngeräte (Sägen, Fräsen ; max. 4 Zähne/Zoll, v_{max} 1,5 m/s). Bei elektrisch betriebenen Trenngeräten müssen diese mit einer geeigneten Kapselung (**Schutzart mindestens IP 54**) ausgestattet sein und über einen vorgeschalteten Fehlerstrom (FI)-Schutzschalter ($I \leq 30$ mA) betrieben werden. Bei überflutetem Graben dürfen nur nichtelektrisch betriebene Geräte (Handsäge, Druckluftsäge oder - fräse), die die obengenannten Kriterien erfüllen, verwendet werden
- Aufkleber „Achtung, enthält Asbest"
- Rohrhebeklammer oder Textilhebebänder für größere Rohrnennweiten
- Neues Rohrstück (z.B. aus Stahl, GGG, Kunststoff)
- Neue Rohrkupplung (z.B. aus Stahl, GGG, Kunststoff)

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Rohr maschinell grob freilegen; Restarbeiten in Handschachtung. Rohr und Boden feucht halten
- Vorgesehene Trennstellen feucht, ggf. mittels Wasserstrahl und Handbrause / Waschbürste vom Restboden reinigen
- Montieren des Rohrschneiders (Stahlkette mit Schneidrollen) nach Bedienungsanleitung an der 1. Trennstelle. Zum leichteren Herausheben des Rohrstückes Schnittwinkel < 90° zur Rohrachse
- Knacken des Rohres durch Spannen der Stahlkette unter Besprühen mit Wasser
- Wiederholen des Knackvorganges an der 2. Trennstelle
- Herausgetrenntes AZ-Rohrstück aus der Baugrube heben
- Das AZ-Rohr sollte auf ganzer Länge ausgebaut werden ! Hierzu Rohrenden beiderseits der Trennstellen aus der Reka-Kupplung ziehen; ggf. Kupplungen mit Trenngerät auftrennen (hierbei mit Wasser besprühen)
- AZ-Rohrstücke aus der Baugrube heben
- AZ-Rohrstücke für Lagerung an der Baustelle oder für Transport auf LKW vollständig mit Restfaserbindemittel versiegeln **oder** vollständig in Folie einschlagen **oder** im noch feuchten Zustand sofort in geeigneten Behälter geben und diesen verschließen
- Einbau eines neuen Rohr- oder Formstückes mittels Rohrkupplungen (jeweils z.B. aus Stahl, GGG, Kunststoff); AZ-Rohranschlußstelle hierbei **nicht** kalibrieren!
- Reinigen der Arbeitsmittel mit Wasser. Ablassen des Reinigungswassers in das Erdreich der Baugrube
- Verfüllen der Baugrube
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Asbestzement (AZ) -Wasserrohrleitungen
- Sägeverfahren -

Stand: 1. Februar 1996

a

BT 4

Anwendungsbereich

Ausbau von AZ-Rohren bis DN 250 in erdverlegten Wasserrohrleitungen (z.B. bei Rohrbrüchen, Einbindungs- und Umlegungsarbeiten). Trennen der Rohre mittels *Sägeverfahren* einschließlich Aufsägen der Rohrkupplungen

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Absperrmaterial für Gefahrenbereich
- Gummistiefel
- Handbrause/Waschbürste und Wasserentnahme-stelle
- Geeignetes Faserbindemittel mit Auftragevorrichtung (Pinsel, Sprühflasche oder Drucksprühgerät) **oder** reißfeste PE-Folie / Klebeband
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Langsamlaufende, hartmetallbestückte Trenngeräte (Sägen, Fräsen ; max. 4 Zähne/Zoll, v_{max} 1,5 m/s). Bei elektrisch betriebenen Trenngeräten müssen diese mit einer geeigneten Kapselung (**Schutzart mindestens IP 54**) ausgestattet sein und über einen vorgeschalteten Fehlerstrom (FI)-Schutzschalter ($I \leq 30$ mA) betrieben werden. Bei überflutetem Graben dürfen nur nichtelektrisch betriebene Geräte (Handsäge, Druckluftsäge oder - fräse), die die obengenannten Kriterien erfüllen, verwendet werden
- Aufkleber „Achtung, enthält Asbest"
- Neues Rohrstück (z.B. aus Stahl, GGG, Kunststoff)
- Neue Rohrkupplung (z.B. aus Stahl, GGG, Kunststoff)

Arbeitsausführung

- Arbeitsbereich abgrenzen
- Rohr maschinell grob freilegen; Restarbeiten in Handschachtung. Rohr und Boden feucht halten
- Vorgesehene Trennstellen feucht, ggf. mittels Wasserstrahl und Handbrause/Waschbürste vom Restboden reinigen
- Montieren des Trenngerätes nach Bedienungsanleitung an der 1. Trennstelle
- Trennen des Rohres an der 1. Trennstelle unter Besprühen mit Wasser
- Wiederholen des Vorganges an der 2. Trennstelle
- Herausgetrenntes AZ-Rohrstück aus der Baugrube heben
- Das AZ-Rohr sollte auf ganzer Länge ausgebaut werden ! Hierzu Rohrenden beiderseits der Trennstellen aus der Reka-Kupplung ziehen; ggf. Kupplungen mit Trenngerät auftrennen (hierbei mit Wasser besprühen)
- AZ-Rohrstücke aus der Baugrube heben
- AZ-Rohrstücke für Lagerung an der Baustelle oder für Transport auf LKW vollständig mit Restfaserbindemittel versiegeln **oder** vollständig in Folie einschlagen **oder** im noch feuchten Zustand sofort in geeigneten Behälter geben und diesen verschließen
- Einbau eines neuen Rohr- oder Formstückes mittels Rohrkupplungen (jeweils z.B. aus Stahl, GGG, Kunststoff); AZ-Rohranschlußstelle hierbei **nicht** kalibrieren!
- Reinigen der Arbeitsmittel mit Wasser. Ablassen des Reinigungswassers in das Erdreich der Baugrube
- Verfüllen der Baugrube
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Lochen von Durchführungen in Verbindung mit Asbestzement-Wellplatten

Stand : 1. Februar 1996

a

BT 5

Anwendungsbereich	Vorbereitende Arbeiten für die Montage von einzelnen Dachständern, Ankern oder einer Strebe bei einer Eindeckung aus Asbestzement-Wellplatten entsprechend Nummer 16.2 TRGS 519

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Bei darüber hinausgehenden Arbeiten ist eine Ausnahmegenehmigung (einmalig, unternehmensbezogen) vom Expositionsverbot nach § 43 Abs. 7 Gefahrstoffverordnung erforderlich

Arbeitsvorbereitung

Bereitzustellen sind:

- Auffangkorb mit Dichtungsring, z.B. aus Schaumstoff (Bauanleitung s. Anlage)
- Klebeband
- ausreichend fester, gem. TRGS 519 Nr. 9.2 (3) gekennzeichneter und sicher verschließbarer Kunststoffsack
- zwei Spritzflaschen gefüllt mit entspanntem Wasser

Hinweis zur Absturzsicherung

Bei Arbeiten in Absturzhöhe, die Vorschriften über Absturzsicherungen beachten (z.B. § 12 UVV VBG 37)

Arbeitsausführung

Die folgenden Arbeiten werden von zwei Personen durchgeführt; Person 1 auf dem Dach; Person 2 unter dem Dach

- Person 2: Vorsichtig evtl. vorhandenes Isoliermaterial entfernen
- Person 2: Kunststoffsack innerhalb des Auffangkorbes mit Dichtungsring ausbreiten
- Person 1,2: Asbestzement-Wellplatte befeuchten (unten und oben)
- Person 2: Auffangkorb mit Dichtungsring von unten gegen die Asbestzement-Wellplatte drücken
- Person 1: Nassen Lappen auf der Asbestzement-Wellplatte ausbreiten
- Person 1: Loch mittels Dachdeckerhammer - durch den nassen Lappen hindurch - in die Asbestzement-Wellplatte schlagen
- Person 1: Asbestzement-Wellplatte - insbesondere Lochrand - befeuchten und kontaminierten Lappen durch das hergestellte Loch hindurch in den Kunststoffsack fallen lassen
- Person 2: Kunststoffsack mit Klebeband verschließen

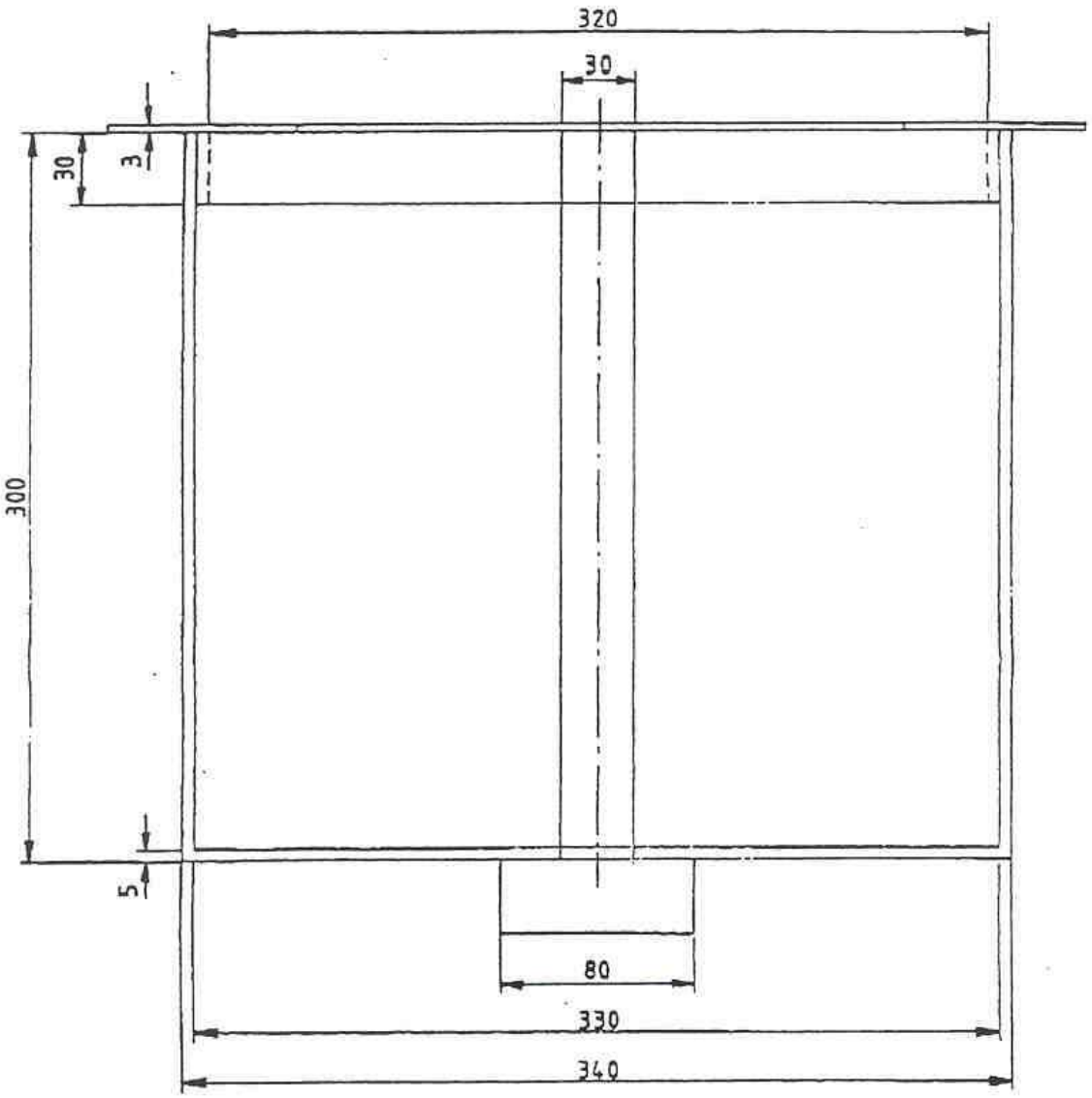
Entsorgung

- Entsorgung der im Kunststoffsack enthaltenen Verbrauchsmaterialien nach den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

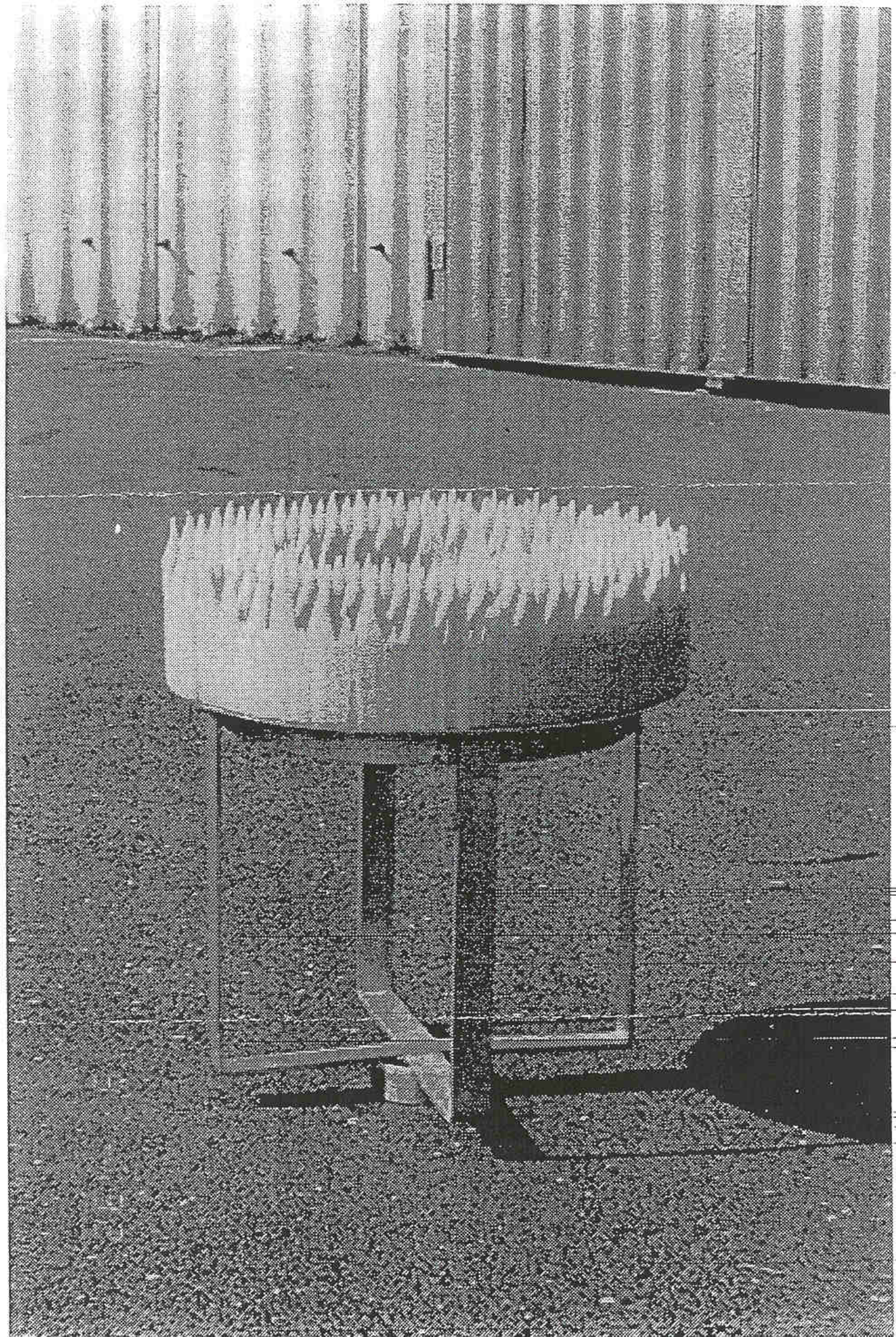
Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem standardisierten Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**



Material: Aluminium

	Datum	Name	Abteilung	Blatt	RWE Energie AKTIENGESELLSCHAFT Regionalversorgung Rheinland-Westfalen
Gezeichn.	7.7.94	Sd	NP-P		
Gepr.Dk					
Maßstab: 1:2	Auffangkorb Vorderansicht / Seitenansicht				Nr. 1.1 Bestandsplan Nr.



Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Entfernen von einzelnen kleinformatigen Asbestzement-Platten

Stand: 1. Februar 1996

a

BT 6

Anwendungsbereich

Vorbereitende Arbeiten für die Montage von einzelnen Dachständern, Ankern oder einer Strebe bei einer Eindeckung aus Asbestzement-Platten entsprechend Nummer 16.2 TRGS 519

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind

- Klebeband
- ausreichend fester, gem. TRGS 519 Nr. 9.2 (3) gekennzeichneter und sicher verschließbarer Kunststoffsack
- zwei Spritzflaschen gefüllt mit entspanntem Wasser

Hinweis zur Absturzsicherung

Bei Arbeiten in Absturzhöhe, die Vorschriften über Absturzsicherungen beachten (z.B. § 12 UVV VBG 37)

Arbeitsausführung

Die folgenden Arbeiten werden von zwei Personen durchgeführt; Person 1 auf dem Dach; Person 2 unter dem Dach

- Person 2: Vorsichtig evtl. vorhandenes Isoliermaterial entfernen
- Person 1: Asbestzement-Platten mit Reparatureisen vorsichtig anheben und die Zwischenräume mittels Spritzflasche anfeuchten
- Person 1: Asbestzement-Platten befeuchten
- Person 1: Asbestzement-Platte zerstörungsfrei entfernen und in Kunststoffsack legen
- Person 1: Freiliegende Asbestzement-Platte sowie Schalung befeuchten
- Person 1: Evtl. vorhandene Dachpappe entfernen und in Kunststoffsack legen
- Person 1: Loch mit Bohrer oder Stichsäge vibrationsfrei in Schalung herstellen
- Person 1: Asbestzement-Platten sowie freiliegende Dachschalung befeuchten
- Person 1: Kunststoffsack mit Klebeband verschließen
- Person 1: Beim Einbau des Abdichtungsbleches Asbestzement-Platten nicht brechen oder schneiden, ggf. Dach provisorisch abdichten und Dachdecker beauftragen
- Person 1: Nicht mehr benötigte Asbestzement-Platten in Kunststoffsack legen und diesen mit Klebeband verschließen

Entsorgung

- Entsorgen der im Kunststoffsack enthaltenen Verbrauchsmaterialien nach den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS

Schornsteinfegerarbeiten
-Kugelverfahren-

Stand: 1. Februar 1996

a

BT 7

Anwendungsbereich

Prüfen asbesthaltiger Schornsteine nach DIN 18160 Teil 1 einschl. zugehöriger Lüftungsanlagen durch Ableinen mit Prüfkugel und beschichteter Leine

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß GefStoffV / TRGS 519 Nr. 3.2 an die zuständige Arbeitsschutzbehörde und die Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige, besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Prüfkugel mit beschichteter Leine
- Rollbock
- Spritzflasche mit entspanntem Wasser
- staubbindendes feuchtes Tuch
- Eimer mit entspanntem Wasser

Arbeitsausführung

- Einsprühen der Schornsteinmündung und der Meidinger Scheibe mittels entspanntem Wasser
- Rollbock mit Kugel auf Schornsteinmündung aufsetzen
- Kugel zur Prüfung des freien Querschnitts **langsam** ablassen, Leine nicht über die Kante laufen lassen (Rollbock)
- Leine mit Kugel **langsam** wieder einholen, Leine dabei durch ein feuchtes Reinigungstuch gleiten lassen, um anhaftende Fasern zu entfernen
- Herausziehen der Prüfkugel und Abwischen der Leine mit einem feuchten Tuch
- Abwischen der Prüfkugel mit einem feuchten Tuch
- Auswaschen des Lappens im bereitstehenden Eimer
- Verpacken der Leine und der Prüfkugel

Entsorgung

- Entsorgung des Wassers in Anlehnung an TRGS 519 Punkt 16.2 Abs. (6), Satz 3
- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) - Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen:

Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS

Schornsteinfegerarbeiten
-Kameraverfahren-

Stand: 1. Februar 1996

a

BT 8

Anwendungsbereich:	Prüfen asbesthaltiger Schornsteine nach DIN 18160 Teil 1 einschl. zugehöriger Lüftungsanlagen auf freien Querschnitt mittels Schornsteinkamera

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß GefStoffV / TRGS 519 Nr. 3.2 an die zuständige Arbeitsschutzbehörde und die Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige, besonders eingewiesene Personen

Arbeitsvorbereitung

- Bereitzustellen sind:

  Schornsteinkamera einschließlich Monitor und Teleskopausleger oder Kamerastoß
- Spritzflasche mit entspanntem Wasser
- staubbindendes, feuchtes Tuch
- Eimer mit entspanntem Wasser oder geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)

Arbeitsausführung

- Einsprühen der Schornsteinmündung und der Meidinger Scheibe bzw. der Kontrollöffnung mittels entspanntem Wasser
- Berührungsloses Einbringen der Kamera über Teleskopausleger oder Kamerastoß
- Drehung der Kabeltrommel in Richtung Schornsteinachse
- Herablassen der Kamera über die Umlenkrolle in Richtung Sohle bzw. mit Kamerastoß nach oben, Leine bzw. Kamerastoß möglichst berührungslos gegenüber der Schornsteinwandung führen
- Beurteilung der Schornsteininnenwand über den Monitor
- Kamera wieder in das Gehäuse ziehen und vorsichtig aus dem Schornstein herausnehmen
- Entfernung anhaftender Fasern vom Arbeitsgerät durch ein feuchtes Reinigungstuch
- Reinigungstuch im Eimer auswaschen oder in geeigneten Behälter geben
- Verpacken der Einzelteile

Entsorgung

- Entsorgung des Wassers in Anlehnung an TRGS Nr.16.2 Abs. (6), Satz 3
- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) - Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Vinyl-Asbestplatten nach DIN 16950 Ausgabe 4/77 (auch Flexplatten genannt)

Stand: 3. April 1996

a

BT 11

Anwendungsbereich	Ausbau von Vinyl - Asbestbodenplatten (sog. Flexplatten) auf Bitumenkleber mittels Handspachtel

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Prüfung durch den sachkundigen Verantwortlichen, daß Bitumenkleber vorliegt
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Handspachtel
- Schere, Messer, Klebeband
- Sprühgerät (Gartenspritze mit entspanntem Wasser, Tenside)
- gem. TRGS 519 geeigneter baumustergeprüfter K1-Staubsauger (TRGS 519, Nr. 7.3 (6))

  Staubsauger, die zuvor bei Arbeiten in abgeschotteten Bereichen (sog. Schwarzbereiche) eingesetzt wurden, dürfen nur dann verwendet werden, wenn eine Kontamination der Geräte (z.B. auch Innere Kontamination über Bypaßkühlung im Motorgehäuse) ausgeschlossen werden kann.
- geeignete, sicher verschließbare und gem. TRGS 519 Nr. 9.3 (2) gekennzeichnete Behälter (ausreichend feste Kunststoffsäcke und Kartons) zur staubdichten Verpackung der Platten, Bruchstücke und Abfälle
- Abdeckfolien
  Reinigungstücher/-mittel
- Arbeitsraumabsperrung/Schilder mit Zutrittsverbotskennzeichnung
- Haftdispersion zur Restfaserbindung

Arbeitsausführung

- Entfernen aller beweglichen Einrichtungen wie Möbel, Teppiche, Gardinen, Wandbilder u. drgl.
- Unbewegliche Einrichtungsgegenstände, z.B. Heizkörper, Einbaumöbel, mit Folie abdecken bzw. abkleben
- Türen/Fenster schließen
- Schilder mit Zutrittsverbotskennzeichnung anbringen
- Boden abschnittsweise befeuchten, Platten mit Handspachtel möglichst bruchfrei abheben und während des Abhebens mit entspanntem Wasser untersprühen (nebeln)
- **Keine Stripper, keine Bodenlegerschaber verwenden**
- Ausgebaute Platten in Plastiksack (Dicke > 0,2 mm) einsammeln, Sack zur Zweifachverpackung in gekennzeichneten Karton stellen. Keine größeren Verpackungsgewichte als 25 kg bilden
- Anhaftende Belagsreste mit dem Handspachtel abstoßen, lose Reste aufsaugen
- Werkzeug mit feuchtem Lappen reinigen, Lappen in den Abfallsack geben, anschließend Werkzeug nochmals im Freien mit Wasser reinigen
- Abfallsack u. Karton mit Klebeband staubdicht verschließen, verpackten Abfall in Transportbehälter (z.B. Container, Big - Bags) einlagern
- Boden nach oberflächiger Abtrocknung mit K1-Sauger absaugen; sonstige Oberflächen ebenfalls absaugen oder feucht wischen.
- Boden anschließend mit Haftdispersion zur Restfaserbindung einstreichen.

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Bohren von Gerüstverankerungslöchern an Aussenfassaden - Anbohrverfahren -

Stand: 30. September 1996

a

BT 12

Anwendungsbereich	Bohren von Gerüstverankerungslöchern (15 mm) in ebenen Asbestzementfassadenplatten mit dem Bohrhammer Hilti TE 5 mit der Staubabsaugung TE5-DRS

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen

Arbeitsvorbereitung

Bereitzustellen sind:

- Bohrmaschine Hilti TE5 mit Staubabsaugung TE5 -DRS
- Original-Hilti-Bohrer in dem erforderlichen Durchmesser 15 mm (max. Länge des Bohrers 150 mm)
- Ersatzstaubbehälter mit Deckel für die Staubabsaugung TE5 - DRS
- 3 cm breites Klebeband
- geeigneter, sicher verschließbarer und gem. TRGS 519 Nr. 9.3 (2) gekennzeichneter Behälter (bei körnigen, gewebten oder stückigen Abfällen z.B. ausreichend fester Kunststoffsack)
- Aufkleber "Achtung, enthält Asbest"
- 10 l-Eimer, zur Hälfte gefüllt mit entspanntem Wasser (z.B. Spülmittel 2 ml auf 5 l Wasser

Arbeitsausführung

Inbetriebnahme und Arbeiten mit dem Bohrhammer

- Bohrhammer TE5 mit dem Staubmodul TE5 - DRS verbinden
- Staubbehälter einschieben
- Bohrer einsetzen

  Der Bohrer darf nicht länger als 150 mm sein. Der Absaugkopf ist entsprechend dieser Bohrergröße einzusetzen
- Stromversorgung herstellen. Bohrhammer ist betriebsbereit
- Bohrhammer auf der Fassadenplatte aufsetzen und diese durchbohren. **Absaugkopf muß beim Bohren sauber auf der Fassadenplatte aufsitzen**

Wechseln des Staubbehälters

Die Kapazität des Staubbehälters ist nach dem Bohren von 30 Bohrungen mit Ø 15 mm erschöpft und muß gewechselt werden. Für das Berechnen der Anzahl von Bohrungen wurde aus einer 10 mm starken Fassadenplatte ausgegangen. Werden stärkere Platten bzw. wird noch in dahinterliegende Bauteile gebohrt, ist der Staubbehälter entsprechend früher zu wechseln

- Bereitstellen eines neuen Staubbehälters
- Bohrhammer waagrecht halten und ca. 10 Sekunden laufenlassen. Dadurch werden alle Staubreste, die sich in der Staubabsaugung abgelagert haben, in den Staubbehälter gesaugt
- Staubbehälter durch das nach Innendrücken der beiden rechts und links angebrachten Tasten entriegeln und nach unten herausziehen
- Staubbehälter abstellen und mit dem Deckel vom neuen Behälter verschließen. Die Umlaufkante des Deckels mit Klebeband abkleben
- Auf den Behälter den Warnaufkleber **„Achtung enthält Asbest"** aufkleben und den Behälter zur Entsorgung bereitstellen
- neuen Staubbehälter in die Staubabsaugung einsetzen

Aufbewahrung von Bohrhammer und Staubabsaugung

- Vor dem Aufbewahren des Bohrhammers ist dieser von der Staubabsaugung zu trennen
- Vor dem Trennen des Bohrhammers von der Staubabsaugung und vor dem Entnehmen des Bohrers sind die ersten 10 cm der Absaugvorrichtung mit dem Bohrer in das bereitgestellte Wasser einzutauchen und durch kreisende Bewegung zu reinigen
- Die Staubabsaugung darf nur mit eingeschobenem Staubbehälter aufbewahrt werden, denn der Innenbereich kann durch Asbestfasern verunreinigt sein
- Warnaufkleber **„Achtung enthält Asbest"** auf die Staubabsaugung **aufkleben**
- Vor einer anderweitigen Verwendung bzw. vor jeder Reparatur ist die Staubabsaugung der TRGS 519 entsprechend mit einem K1-Staubsauger zu reinigen
- Nach der Reinigung muß der Aufkleber **„Achtung enthält Asbest"** entfernt werden

Entsorgung

- Das Reinigungswasser ist wie Abwasser zu entsorgen (TRGS 519 Nr. 16.2 Absatz (6), Satz 3)
- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes:

  Entsorgung asbesthaltiger Abfälle

*) Länderarbeitsgemeinschaft Abfall

Wichtiger Hinweis

Die Bedienungsanleitung *Hilti TE5 TE5-DRS* ist Bestandteil dieser Arbeitsanweisung

Verhalten bei Störungen

- **Muß beim Arbeitsablauf von diesem geprüften Verfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Geprüfte Verfahren für Arbeiten mit **geringer Exposition** gemäß Nr. 2.10 Abs. 8 TRGS 519

Asbesthaltige Elektrospeicherheizgeräte

-Glove Bag - Verfahren-

Stand: 1. Februar 1996

a

ET 1

Anwendungsbereich: Gewichtserleichterung von asbesthaltigen Elektrospeicherheizgeräten (ESH) bis 1,5 m Länge mit Hilfe des Glove Bag - Verfahrens

Organisatorische Maßnahmen

- Benennung eines sachkundigen Verantwortlichen nach TRGS 519
- Einmalige unternehmensbezogene Anzeige vor Aufnahme der Arbeiten gemäß § 37 GefStoffV / TRGS 519 Nr. 3.2 an zuständige Aufsichtsbehörde und Berufsgenossenschaft
- Erstellen einer Betriebsanweisung und Unterweisung der beim Umgang mit asbesthaltigen Gefahrstoffen beschäftigten Arbeitnehmer nach § 20 GefStoffV
- Arbeitsausführung nur durch fachkundige und besonders eingewiesene Personen
- Beschaffung und Studium der typbezogenen Demontageanleitung des Geräteherstellers

Arbeitsvorbereitung

Bereitzustellen sind:

- Absperrmaterial für Gefahrenbereich
- Arbeitsmittel (zur Demontage des Gerätes benötigte Werkzeuge, Textilklebeband etc.)
- Transporthilfsmittel, wie z.B. Treppensteigegerät, Sackkarre, Hubwagen, Rollschienen, Hilfsbleche
- Gemäß TRGS 519 geeigneter, baumustergeprüfter K1-Staubsauger (TRGS 519, Nr. 7.3 (6)), (Saugleistung min. 30m³/h - max. 100m³/h)

  Staubsauger, die zuvor bei Arbeiten in abgeschotteten Bereichen (sogenannte Schwarzbereiche) eingesetzt wurden, dürfen nur dann verwendet werden, wenn eine Kontamination der Geräte (z.B. innere Kontamination über Bypaßkühlung im Motorgehäuse) ausgeschlossen werden kann.
- Geeignete sicher verschließbare und gem. TRGS Nr. 9.2 (3) gekennzeichnete Behälter, z.B. feste Kunststoffsäcke (Folienbeutel) zur Verpackung der Speichersteine sowie kontaminierter Verbrauchsmaterialien und Werkzeuge
- Aufkleber „Achtung enthält Asbest"
- Glove Bag - Entsorgungszelt (incl. Zubehör z.B. Folie, Gestänge etc.)

Arbeitsausführung

- **Geräte dürfen nur in kaltem Zustand demontiert werden. Gegebenfalls Gerät zunächst entspeichern (Raumthermostat auf „Max.", Laderegler auf „0".**
- Arbeitsbereich abgrenzen
- Gerät elektrisch freischalten und danach durch Abschneiden des Netzkabels direkt am Elektrospeicherheizgerät vom Netz trennen
- Elektrospeicherheizgerät staubdicht abkleben (Lüftungsöffnungen, Gehäusefugen, Deckelfugen)
- Folie vor Elektrospeicherheizgerät ausbreiten (für den Aufbau des Glove Bag ist ein Flächenbedarf von 1,7 m x 1,4 m vorzusehen, an der Seite der Materialschleuse zusätzlich eine Fläche von 1 m^2)
- Gerät mit Transporthilfsmittel in Arbeitsposition bewegen
- Bisherigen Standort des Gerätes mit K1-Staubsauger absaugen
- Gestänge für Glove Bag aufbauen
- Glove Bag schließen (Abkleben mit Textilklebeband)
- Staubsauger über Anschlußstutzen anschließen und in Betrieb nehmen
- Gewichtserleichterung des Elektrospeicherheizgerätes:

1. Elektrospeicherheizgerät öffnen;
2. Steine herausnehmen, innerhalb des Glove Bag staubdicht in Folienbeutel verpacken und ausschleusen. Jeder verschlossene Folienbeutel wird dabei aus dem Glove Bag durch die Materialschleuse in die außen, oberhalb der Materialschleuse angedockte feste Verpakkungseinheit (z.B. bestehend aus einem Karton in einem reißfesten Kunststoffsack) befördert. Dabei müssen zwei Arbeitskräfte Hand in Hand arbeiten. Soll das Werkzeug wieder verwendet werden, ist es ebenfalls ordnungsgemäß auszuschleusen und zu reinigen
3. Andere ausgebaute Teile wieder in das Gerät zurückgeben;
4. Gerät verschließen.

- Glove Bag - Gestänge (verbleibt im Glove Bag) auseinanderziehen; danach Materialschleuse luftdicht verkleben und Glove Bag zusammensaugen (Luft absaugen, nicht hinauspressen!). Glove Bag-Folie als Verpackung verwenden
- Saugerdüse des K1-Staubsaugers abkleben
- Gerät und ausgeschleuste Steine in Folie verpackt abtransportieren
- Arbeitsbereich freigeben

Entsorgung

- Entsorgen der asbesthaltigen bzw. asbestkontaminierten Materialien gemäß den Anforderungen der Deponie unter Beachtung der TRGS 519 und des LAGA*) Merkblattes: ***Entsorgung asbesthaltiger Abfälle***

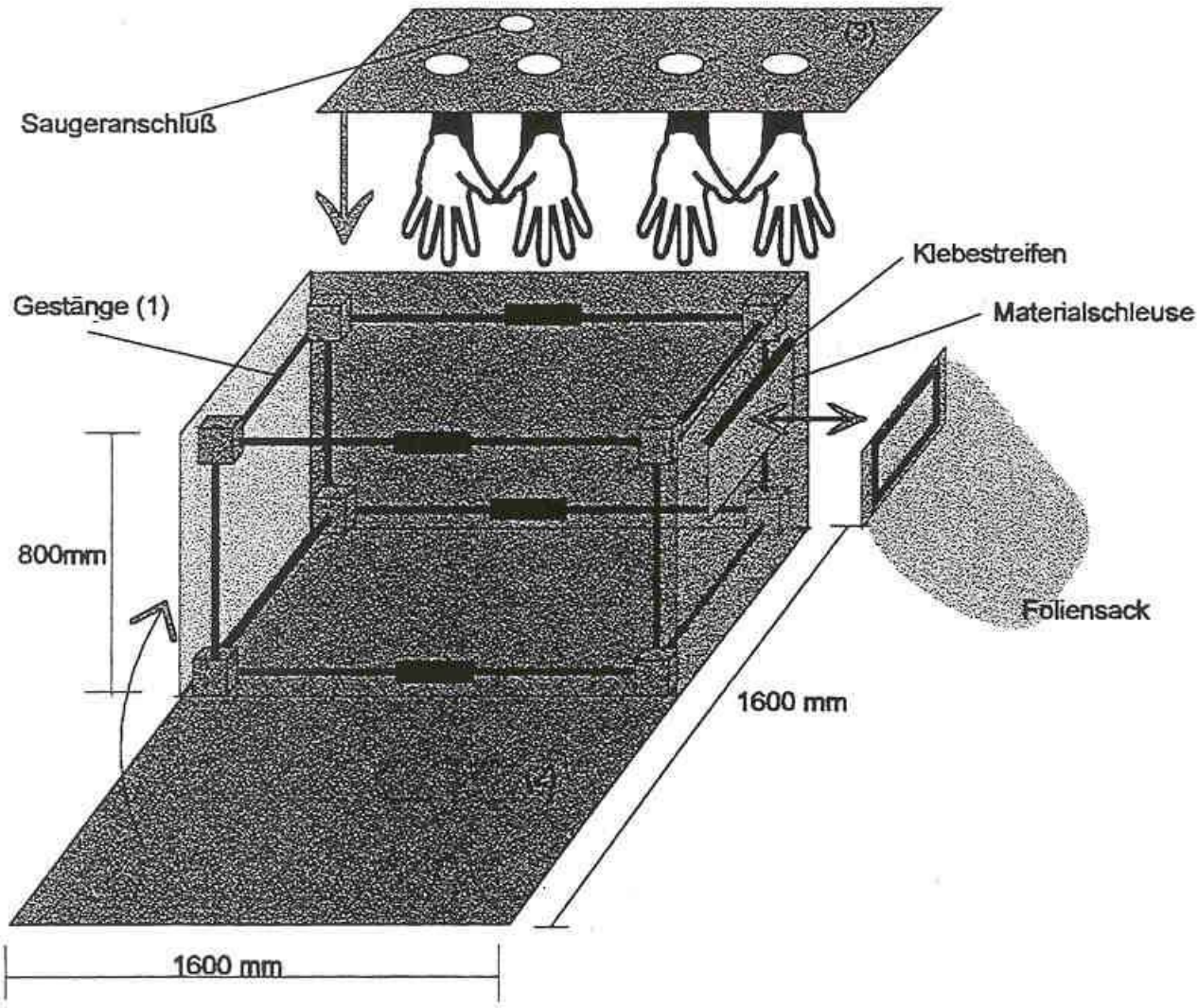
*) Länderarbeitsgemeinschaft Abfall

Verhalten bei Störungen

- **Bei Ausfall des K1-Staubsaugers ist der Glove Bag sofort staubdicht zu verpacken. Nach Behebung der Störung am K1-Staubsauger kann die Arbeit normal fortgesetzt werden**
- **Bei Beschädigung der Glove Bag - Folie ist die Folie bei laufendem K1-Staubsauger abzudichten bzw. abzukleben. Anschließend kann gemäß Arbeitsanweisung weitergearbeitet werden**
- **Muß beim Arbeitsablauf von diesem geprüften Arbeitsverfahren abgewichen werden, ist die Arbeit zu unterbrechen und der sachkundige Verantwortliche zwecks Abstimmung der weiteren Vorgehensweise zu verständigen**

Aufbau des Glove Bag

1. Gestänge (8 Eckklötze, 8 Kunststoffstäbe, 8 Holzstäbe)
2. Folie incl. Materialschleuse (überlappende Folie)
3. Handschuhteil



APPENDIX H-5

HEALTH HAZARDS THROUGH ASBESTOS: INFORMATION FOR US-EMPLOYEES AND CONTRACTORS

Health Hazards Through Asbestos

Information for US Employees and Contractors

The U.S. Occupational Safety and Health Administration (OSHA) requires employees that may come into contact with asbestos e.g. during renovation, maintenance, or custodial work to be informed about the related risks. Army Regulation AR 200-1 applies this notification requirement on all occupants of U.S. military installations and contractors.

General: In Germany, the manufacture, processing, or sale of asbestos containing materials (ACM) is prohibited. However, ACM are still present in buildings that have been constructed before asbestos was prohibited. Demolition, renovation, and maintenance work affecting ACM has to be performed under very strict safety precautions that prevent unprotected exposure of workers and building occupants to asbestos fibers. Careless or unintentional disturbance of asbestos products, on the other hand, can cause fiber release and endanger workers and building occupants.

Asbestos Investigations: An Asbestos survey was conducted at the Kitzingen facilities in 1990 and re-inspections in 1996 and 2002. Of the originally identified ACM many have meanwhile been removed, others are still in place.

What is asbestos: Asbestos is a group of naturally occurring fibrous silicate minerals that have been mined for their useful properties such as incombustibility, thermal and acoustical insulating properties, chemical stability, as well as high tensile strength.

Where was asbestos used: Asbestos was used in more than 4,000 different products. Generally the variety of asbestos products was significantly higher in the US than in Germany. The main asbestos applications in buildings in Germany include:

- Insulation of heating pipes, and hot water tanks
- Vinyl floor tiles
- Ventilation or flue ducts
- Roofing and facade material
- Thermal or acoustic insulation panels
- Gaskets

Sprayed or toweled-on asbestos fire proofing and asbestos-containing wall plaster, which were very common in the US, were only rarely applied in Germany due to different construction standards.

Health Hazards: The mere presence of ACM does not necessarily present a health hazard. In order for asbestos to be a health hazard, breathable (i.e. ultra-fine) fibers must be released into the air where they can be inhaled. The inhalation of asbestos fibers can cause serious diseases of the lungs and other organs. Asbestos-related illnesses have average latency periods of 10 – 30 years.

Asbestosis: A scarring of the lung tissue caused by inhaling asbestos fibers. Asbestosis is a severe type of silicosis and the result of a long-term exposure to high airborne asbestos fiber concentrations. Workers who came down with asbestosis were either mining asbestos or producing, processing, applying or demolishing ACM without proper respiratory protection.

Lung cancer: Lung cancer can be caused by inhaled asbestos fibers. As with many other carcinogenic substances, there is no safe level under which asbestos can be considered harmless, although the risk of developing lung cancer increases with the number of fibers that end up in the lung tissue. Tobacco smoking can increase this risk since the nicotine adversely affects the cleaning system of the upper breathing tract, thus increasing the number of particles that may pass into the lungs.

Mesothelioma: Rare form of cancer of the lining of the chest (the pleura), the lining of the abdominal cavity (the peritoneum) or the membrane surrounding the heart (the pericardium). Mesothelioma is considered to be exclusively or nearly exclusively caused by amphibole asbestos fibers.

Recognition of asbestos-free products: Asbestos can only be identified under a microscope. Therefore, products cannot be distinguished definitely as asbestos-free or as asbestos products without microscopic examination.

General protective measures: ACM should not be disturbed or damaged. In the event that ACM are damaged and pose a potential health hazard by fiber release, a qualified person (Environmental Office) must be informed. Maintenance or removal work on ACM has to be performed by trained personnel and supervised by a “Responsible Person” according to TRGS 519.

All employees / contractors are to be instructed verbally on this information to ensure measures contained herein were understood. The instruction must be confirmed in writing.

_____

Location / Date

_____ _____

Company / Department Employee

GESUNDHEITSGEFAHREN DURCH ASBEST

Information für US Angestellte and US Vertragsfirmen

Gemäß der für Arbeitsschutz zuständigen US Organisation OSHA (Occupational Safety and Health Administration), müssen alle US Angestellten, die Reinigungs-, Wartungs- oder Renovierungsarbeiten in Gebäuden durchführen und dabei mit asbesthaltigen Materialien in Kontakt kommen könnten, über die Gesundheitsrisiken durch Asbest am Arbeitsplatz informiert werden.

Allgemeines: In Deutschland ist die Herstellung, Verwendung und Inverkehrbringung von Asbest bzw. asbesthaltigen Produkten verboten. Der Umgang mit asbesthaltigen Stoffen ist nur im Rahmen von Abbruch-, Sanierungs- oder Instandhaltungsarbeiten erlaubt. Unprofessioneller Umgang mit asbesthaltigen Produkten kann zur Freisetzung von Asbestfasern führen und Beschäftigte sowie unbeteiligte Dritte gefährden.

Asbestuntersuchungen: 1990 wurde eine Asbestuntersuchung in den U.S Army Einrichtungen in Kitzingen durchgeführt. Neuberwertungen der asbesthaltigen Materialien erfolgten 1996 und 2002. Seit der ersten Untersuchung sind inzwischen viele asbesthaltige Materialien entfernt worden. Andere sind jedoch noch vorhanden.

Was ist Asbest: Asbest ist eine Gruppe natürlich vorkommender, faserförmiger Silikate, die aufgrund ihrer nützlichen Eigenschaften wie z.B. Feuerfestigkeit, thermische und akustische Isoliereigenschaften, chemische Resistenz sowie hohe Zug-/Reißfestigkeit abgebaut wurde.

Verwendung von Asbest: In Deutschland wurde Asbest vor allem in den folgenden Baumaterialien verwendet:

- Isolierungen von Dampf- und Heißwasserrohren bzw. -tanks
- Bodenbeläge (so genannte Flex-Platten)
- Belüftungs- und Abluftschächte
- Bedachungs- und Fassadenmaterial
- Leichtbauplatten zur Wärme oder Schalldämmung
- Dichtungen
- Feuerschutztüren und -klappen

Gesundheitsgefahren: Von festgebundenen Asbestprodukten in gutem Zustand geht in eingebauten (Ruhe-) Zustand keine Gesundheitsgefahr aus. Werden asbesthaltige Produkte mechanisch bearbeitet oder beschädigt, können Asbestfasern freigesetzt werden. Das Einatmen von Asbestfasern kann zu ernsthaften Gesundheitsschäden der Lungen und anderer Organe führen. Die Latenzzeit zwischen Exposition und Ausbruch der Krankheit ist bei asbestbedingten Krankheiten häufig sehr lang (im Durchschnitt 10-30 Jahre). Folgende Erkrankungen werden beschrieben:

Asbestose: Eine Vernarbung des Lungengewebes verursacht durch eingeatmete Asbestfasern. Risikogruppen sind Arbeiter, die über längere Zeit hohen Asbestfeinstaubkonzentrationen ausgesetzt waren (Asbestminenarbeiter, Isolierer, Demontagearbeiter, Arbeiter in der Asbestindustrie).

Lungenkrebs: Lungenkrebs kann durch eingeatmete Asbestfasern verursacht werden. Das Risiko von Lungenkrebs wird deutlich durch Rauchen erhöht, da das Nikotin das Reinigungssystem des oberen Atmungstraktes beeinträchtigt.

Malignes Mesotheliom: Eine seltene und nicht heilbare Tumorerkrankung des Rippenfells, Bauchfells oder des Perikards (Herzbeutel). Man geht heute davon aus, dass das Maligne Mesotheliom fast ausschließlich auf Amphibolasbestfasern zurückgeführt werden kann.

Erkennen von asbestfreien Produkten: Asbest kann nur mittels Mikroskop nachgewiesen werden. Dementsprechend können Materialien nicht ohne mikroskopische Untersuchung definitiv als asbestfrei oder asbesthaltig eingestuft werden.

Allgemeine Schutzmaßnahmen: Asbesthaltige Materialien dürfen nicht beschädigt oder mechanisch bearbeitet werden. Im Fall einer Beschädigung asbesthaltiger Materialien ist die Arbeit zu unterbrechen und eine verantwortliche qualifizierte Person (Environmental Office) zu benachrichtigen. Jegliche Instandhaltungs-, Sanierungs- und Beseitigungsarbeiten an asbesthaltigen Produkten dürfen nur von entsprechend unterwiesenen Mitarbeitern unter Aufsicht einer „Verantwortlichen Person" gemäß TRGS 519 durchgeführt werden.

Alle Angestellten und Vertragsfirmen müssen verbal über den Inhalt dieser Mitteilung informiert werden um sicherzustellen, dass alles verstanden wurde. Die Anweisung muß schriftlich bestätigt werden.

_____

Ort / Datum

_____ _____

Firma / Abteilung Angestellter